

DEPARTMENT OF NATURAL RESOURCES  
AND CONSERVATION

GREG GIANFORTE, GOVERNOR

1539 ELEVENTH AVENUE

## STATE OF MONTANA

DIRECTOR'S OFFICE: (406) 444-2074  
FAX: (406) 444-2684PO BOX 201601  
HELENA, MONTANA 59620-1601DECISION MEMO  
CATEGORICAL EXCLUSION

Plentywood Laurel Avenue Water Project  
7/15/2021 – Already in Construction  
City of Plentywood  
48.779, -104.558  
Sheridan County, Montana

## PURPOSE AND NEED

The City of Plentywood has proposed to replace the existing four-inch Asbestos Cement and cast-iron mains with new six-inch PVC water main. The project will take place in West Laurel Avenue, beginning at Hazel Street and extending southeast approximately one and half blocks to North Jefferson Street. The City will also replace a main on North Jefferson Street from West Laurel Avenue to Sheridan Street.

These improvements will fix leakage issues and increase the size of the main to the minimum size required through Montana DEQ Circular DEQ-1.

Construction has already begun, and the applicant has been awarded ARPA Minimum Allocation Grant funding for reimbursement.

**Explanation of the decision(s) that must be made regarding the proposed action (i.e. approve grant or loan and provide funding):**

DNRC will approve the grant to provide funding for the Plentywood Laurel Avenue Water Project.

DNRC is not required to prepare an Environmental Assessment (EA) or an Environmental Impact Statement (EIS) for actions that qualify for a CATEGORICAL EXCLUSION (ARM 36.17.614) or justified by a PROGRAMMATIC REVIEW; or are ACTIONS OF A SPECIAL NATURE (ARM 36.2.523(5)); or are EMERGENCIES (ARM 36.2.539). These actions are subject to review for EXTRAORDINARY CIRCUMSTANCES that would require an EA or an EIS.

**ACTIONS OF SPECIAL NATURE (ARM 36.2.523)**

- ☐ Administrative actions: routine, clerical or similar functions of a department, including but not limited to administrative procurement, contracts for consulting services, and personnel actions.
- ☐ Minor repairs, operations, or maintenance of existing equipment or facilities.
- ☐ Investigation and enforcement: data collection, inspection of facilities or enforcement of environmental standards.

☐ Ministerial actions: actions in which the agency exercises no discretion, but rather acts upon a given state of facts in a prescribed manner.

☐ Actions that are primarily social or economic in nature and that do not otherwise affect the human environment.

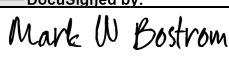
### **CATEGORICAL EXCLUSION/PROGRAMMATIC REVIEW**

☒ Categorical Exclusion (CE) refers to a type of action which does not individually, collectively, or cumulatively require an EA or EIS, as determined by rulemaking or programmatic review adopted by the agency, unless extraordinary circumstances, as defined by rulemaking or programmatic review, occur. This project qualifies under ARM 36.17.614 CATEGORICAL EXCLUSIONS.

☐ Programmatic review means an analysis (EIS or EA) of the impacts on the quality of the human environment of related actions, programs, or policies. DNRC – CARDD does not have any programmatic reviews completed at the time of this template.

The project listed above meets the definition of Actions of a Special Nature, Categorical Exclusion or Programmatic Review including specified conditions and Extraordinary Circumstances. Included below is a supplemental checklist verifying the use of the Categorical Exclusion.

<b>Prepared By:</b>	<b>Name:</b>	Demi Blythe
	<b>Title:</b>	CARD Division MEPA Coordinator
	<b>Email:</b>	Demitra.Blythe@mt.gov
<b>Date:</b> 11/2/2021		

<b>Approved By:</b>	<b>Name:</b>	Mark Bostrom
	<b>Title:</b>	CARD Division Administrator
<b>Signature:</b>	<small>DocuSigned by:</small>  <small>Signature ID: D17A1C30B2AF4DE...</small>	
<b>Date:</b> 11/3/2021   1:45:38 PM MDT		

## **DNRC CARDD DOCUMENTATION OF CATEGORICAL EXCLUSION DETERMINATION CHECKLIST**

**Project Name:** Plentywood Laurel Avenue Water Project

**Brief Description:** Water Main Replacement and Upgrade

**Agreement Number:** ARPA - MAG

**Date:** 11/2/2021

**Preparer:** Demi Blythe – MEPA Coordinator

The Department of Natural Resources and Conservation action under 36.17.614, is excluded from the requirement to prepare an environmental assessment (EA) or environmental impact statement (EIS) if the application for department review is for any of the following projects:

**(a) Projects relating to existing infrastructure systems such as sewer and septic systems, drinking water supply systems, and stormwater systems, including combined sewer overflow systems, dams, culverts, headgates, canal lining, siphons, pipelines, pump sites, lift stations, irrigation infrastructure, that involve:**  
*[Answer yes or no. If all answers “no”, an EA or EIS must be completed. If any answer is yes, skip to (b).]*

1. Yes - Minor upgrading; or
2. Yes - Minor expansion of system capacity; or
3. Yes - Rehabilitation (including functional replacement) of the existing system and system components; or
4. Yes - Construction of new minor ancillary facilities adjacent to or on the same property as existing facilities; or
5. No - Projects in unsewered communities involving the replacement of existing on-site systems, provided that the new on-site systems do not result in substantial increases in the volume of discharges or in loadings of pollutants from existing sources, and do not relocate existing discharges; or
6. No - Use of sampling and monitoring wells to test for the presence of contaminants such as, but not limited to, metals and petroleum; or
7. No - Activities that do not involve or lead directly to construction, such as planning studies, scientific research and analysis, surveys, or engineering.

**(b) A categorical exclusion may NOT be granted for a department action if:**  
*[Answer yes or no. If all answers “no”, skip to (c). If any answer is yes, an EA or EIS must be completed.]*

1. No - The action would authorize facilities that will provide a new discharge or relocate an existing discharge to ground or surface waters;
2. No - The action would result in an increase above permit levels established for the facility under the Montana pollutant discharge elimination system or Montana ground water pollution control system for either volume of discharge or loading rate of pollutants to receiving waters;
3. No - The action would authorize facilities that will provide capacity to serve a population at least 30% greater than the existing population;
4. No - The action is not supported by the state, or other regional growth plan or strategy;
5. No - The action directly or indirectly involves or relates to upgrading or extending infrastructure systems primarily for the purposes of future development;
6. No - The department has received information indicating that public controversy exists over the project's potential effects on the quality of the human environment;
7. No - The department determines that the proposed project that is the subject of the state action shows some potential for causing a significant effect on the quality of the human environment, based on ARM 36.2.524, or might possibly affect:
  - (i) sensitive environmental or cultural resource areas; or
  - (ii) endangered or threatened species and their critical habitats.

**(c) If the proposed project meets the conditions above in determining use of a CATEX, the**

**reviewer will then complete items below as follows:**

*[Once all steps are complete, reviewer shall sign and date at bottom. If revocation becomes necessary, reviewer shall initiate an EA or EIS as appropriate.]*

1. Yes - Project meets the above Categorical Exclusion criteria.
2. Yes - DNRC determination of Categorical Exclusion.
3. Yes - DNRC distributes the Notice of Determination.
4. Yes - Notice of Publication and cover letter (containing revocation language below) is delivered to recipient.
5. NA - Notice of Publication published in local newspaper by recipient and evidence of publication provided to reviewer.

**(d) The department may revoke a categorical exclusion if:**

*[Only complete the steps below if revocation of a previously implemented CATEX becomes necessary.]*

1. Choose an item. - The project is not initiated within the time period specified in the facility plan, or a new or modified application is submitted;
2. Choose an item. - The proposed action no longer meets the requirements for a categorical exclusion because of changes in the proposed action;
3. Choose an item. - New evidence demonstrates that serious local or environmental issues exist; or
4. Choose an item. - State, local, tribal, or federal laws may be violated.

Demi Blythe – MEPA Coordinator

**DNRC CARD Division STATE PREPARER**

Mark Bostrom – CARDD Administrator

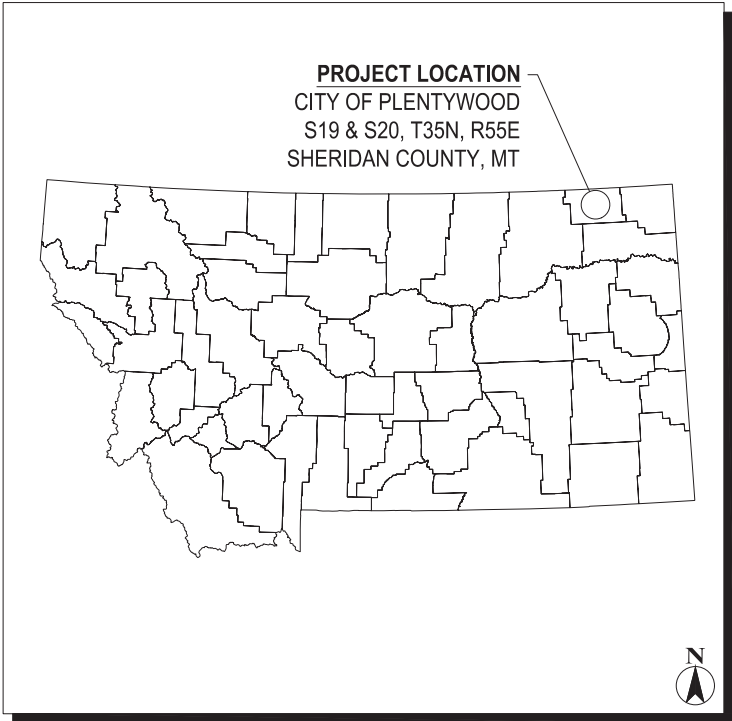
**DNRC CARD Division STATE REVIEWER**

11/2/2021

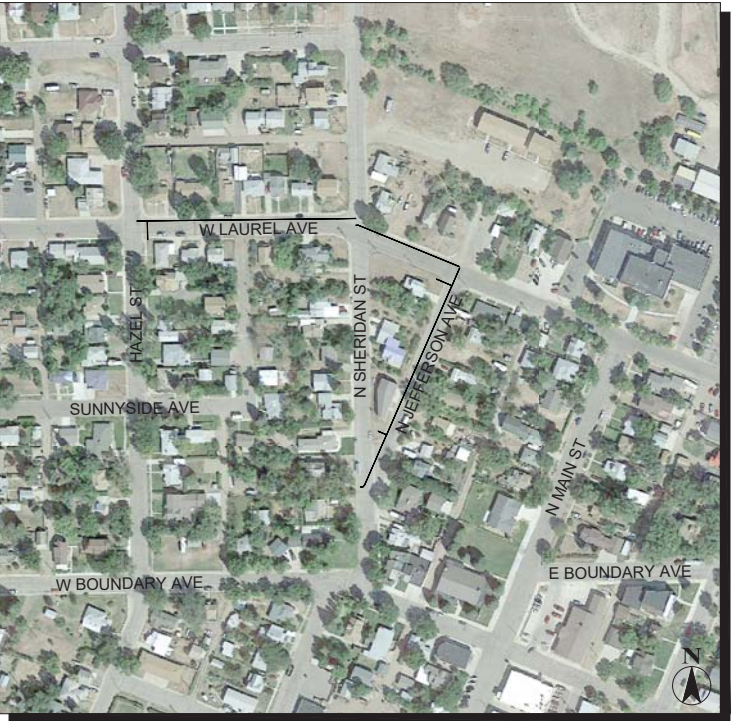
**COMPLETION DATE**

PRELIMINARY PLANS  
FOR  
LAUREL AVE WATER REPLACEMENT

PREPARED FOR  
CITY OF PLENTYWOOD, MT



LOCATION MAP  
NOT TO SCALE



SITE MAP  
NOT TO SCALE

CITY OFFICIALS

MAYOR.....Randy Rice  
CLERK/TREASURER.....Kelly Thiel  
COUNCIL PERSON.....Melissa Romstad  
COUNCIL PERSON.....Michael Nielson  
COUNCIL PERSON.....James Maue  
COUNCIL PERSON.....Ken Budd



BIDDING DOCUMENTS - 04/22/2021

INDEX OF DRAWINGS

SEQUENCE NUMBER	SHEET NUMBER	SHEET TITLE
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2	G2	GENERAL CONSTRUCTION NOTES
3	G3	SUBMITTAL SUMMARY
4	G4	QUANTITY SUMMARY
5	G5	SURVEY SUMMARY
6-8	D1 to D3	DETAIL DRAWINGS
9	C1	OVERVIEW MAP
10	C2	W LAUREL AVE (STA. 100+00.00 TO 105+15.00)
11	C3	W LAUREL AVE (STA. 105+15.00 TO 108+00.00)
12	C4	N JEFFERSON ST (STA. 200+00.00 TO 205+20.00)
13	C5	EMERGENCY REPLACEMENT REPAVE
14	C6	WATER VALVE REPLACEMENT

THIS PLAN CONTAINS 14 SHEETS

QUALITY REVIEW :  
\_\_\_\_\_, 2021

BY: Ryan Kopp  
INTERSTATE ENGINEERING, INC.  
PROJECT ENGINEER

APPROVED :  
\_\_\_\_\_, 2021

BY: John Bach  
INTERSTATE ENGINEERING, INC.  
PROJECT ENGINEER



REVISION NO.	DATE	BY	DESCRIPTION
















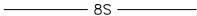





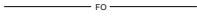




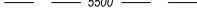




















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2177 Lincoln Ave SE  
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Fax (406) 433-5618  
www.interstateeng.com  
Other offices in Minnesota, North Dakota and South Dakota

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- WORK, INCLUDING PERMITS FROM THE MONTANA DEPARTMENT OF TRANSPORTATION (MDT), AND OR LOWER YELLOWSTONE IRRIGATION (LYIP).
- 6.3. THE CONTRACTOR IS RESPONSIBLE FOR, BUT NOT LIMITED TO, DEVELOPING AND IMPLEMENTING A SITE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). CONTRACTOR SHALL SUBMIT THE PLAN TO THE OWNER/ENGINEER PRIOR TO FILING THE NOTICE OF INTENT WITH THE MONTANA DEPARTMENT OF ENVIRONMENTAL QUALITY (MDEQ) FOR THIS PROJECT, IF REQUIRED.
- 6.4. ALL SALVAGEABLE MATERIALS SHALL BECOME THE PROPERTY OF THE OWNER. EXCESS EXCAVATED MATERIAL INCLUDING PIPE, STUMPS, ROOTS, AND ANY OTHER ITEMS THE OWNER DOES NOT WISH TO SALVAGE SHALL BECOME THE CONTRACTOR'S PROPERTY AND SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY, INCIDENTAL TO THE CONTRACT WITH NO ADDITIONAL COMPENSATION AWARDED FOR SUCH.
- 6.5. THE CONTRACTOR WILL PROTECT ALL PAVEMENT, SURFACING, DRIVEWAYS, CURBS, WALKS, BUILDINGS, UTILITY POLES, GUY WIRES, MAILBOXES, PLANTERS, AND OTHER SURFACE STRUCTURES AFFECTED BY CONSTRUCTION ACTIVITIES IN CONNECTION WITH PERFORMANCE OF THE CONTRACT. TOGETHER WITH GRASS, SHRUBS, LAWN ORNAMENTS, ETC., OF YARDS CROSSED OR ADJACENT TO THE WORK FROM DAMAGE AND/OR DISTURBANCE. IF REMOVED OR OTHERWISE DAMAGED, THE CONTRACTOR SHALL RESTORE ALL SURFACE STRUCTURES TO THE ORIGINAL CONDITION OR BETTER AS DETERMINED BY THE OWNER/ENGINEER. ALL REPLACEMENT OF SUCH SURFACING AND SURFACE STRUCTURES SHALL BE MADE WITH NEW MATERIALS CONFORMING TO THE SPECIFICATIONS OR AS APPROVED BY THE OWNER/ENGINEER.
- 6.6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO STREETS, ROADS, HIGHWAYS, DITCHES, SHOULDERS, EMBANKMENTS, CULVERTS, BRIDGES, OR OTHER PUBLIC OR PRIVATE PROPERTY OR FACILITY THAT MAY BE DAMAGED BY MOVING, HAULING, OR OTHERWISE TRANSPORTING EQUIPMENT, MATERIALS TO OR FROM THE WORK. THE CONTRACTOR SHALL MAKE, WITHOUT DELAY, SATISFACTORY AND ACCEPTABLE ARRANGEMENTS WITH THE OWNER OF THE AGENCY HAVING JURISDICTION OVER THE DAMAGED PROPERTY CONCERNING REPAIR OR REPLACEMENT OR PAYMENT OF COSTS INCURRED IN CONNECTION WITH SAID DAMAGE.
- 6.7. EXISTING LANDSCAPE AND IRRIGATION SYSTEMS ARE NOT SHOWN BUT SHALL BE PROTECTED BY THE CONTRACTOR. ANY DAMAGED COMPONENTS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- 6.8. CONTRACTOR SHALL MAINTAIN ACCESS FOR ALL PROPERTY OWNER(S) AND BUSINESSES, AND SHALL COORDINATE DETOURS AND TEMPORARY CLOSURES WITH AFFECTED PROPERTY OWNER(S).
- 6.9. CONSTRUCTION ACTIVITIES REQUIRING ROAD CLOSURES SHALL BE RELAYED TO THE LOCAL DISPATCH OFFICE BY THE CONTRACTOR TO ENSURE EMERGENCY SERVICES ARE NOTIFIED OF ALTERNATE ROUTES THROUGHOUT THE DURATION OF THE PROJECT.
- 6.10. ALL TRAFFIC CONTROL DEVICES AND PLANS ARE SUBJECT TO REVIEW BY THE OWNER/ENGINEER AND THE MONTANA DEPARTMENT OF TRANSPORTATION AS APPLICABLE. ALL TRAFFIC CONTROL/DEVICES SHALL MEET THE REQUIREMENTS OF THE MUTCD, LATEST EDITION.
- 6.11. CONTRACTOR SHALL KEEP THE PROJECT SITE CLEAN AND ORDERLY DURING THE COURSE OF CONSTRUCTION, AS APPROVED BY THE OWNER/ENGINEER.
- 6.12. CONTRACTOR SHALL PROVIDE DUST CONTROL MEASURES THROUGHOUT THE COURSE OF CONSTRUCTION, AS APPROVED BY THE OWNER/ENGINEER.
- 6.13. CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO PREVENT EXCESSIVE AMOUNTS OF OPEN TRENCH. OPEN TRENCH IS DEFINED AS AREAS ABSENT THE FOLLOWING CRITERIA; BACKFILL/COMPACTION PER THE SPECIFICATIONS, AND TEMPORARY SURFACE COURSE (IF REQUIRED) TO FINISH GRADE.
- 6.13.1. THE MAXIMUM PERMISSIBLE DISTANCE OF OPEN TRENCH BETWEEN BACKFILLING/COMPACTION/TEMPORARY SURFACING OPERATIONS FROM THE END OF NEWLY INSTALLED PIPE SHALL NOT EXCEED 200 FEET IN EXISTING STREETS AND 500 FEET IN ALL OTHER AREAS, UNLESS OTHERWISE APPROVED BY OWNER/ENGINEER. SHORTER DISTANCES MAY BE REQUIRED BASED ON PROXIMITY TO SCHOOL BUILDINGS. REFER TO SECTION 31 23 33 TRENCHING AND BACKFILL FOR MORE INFORMATION.
- 6.13.2. OPEN TRENCH OUTSIDE OF THESE LIMITS SHALL BE BACKFILLED, COMPACTED, AND HAVE TEMPORARY SURFACING INSTALLED TO FINISH GRADE PER THE SPECIFICATIONS AND BE OPEN AND ACCESSIBLE TO THE PUBLIC WITHIN TRAVELED ROADWAYS.
7. NEW UTILITY INSTALLATION
- 7.1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL O.S.H.A. STANDARDS FOR TRENCH EXCAVATION.
- 7.2. UNLESS OTHERWISE NOTED, CONSTRUCTION LIMITS FOR WATER MAIN ARE WITHIN CITY RIGHTS OF WAY, MONTANA DEPARTMENT OF TRANSPORTATION RIGHTS OF WAY AND EXECUTED EASEMENTS.
- 7.3. ALL WATER MAINS, SERVICES, VALVES, HYDRANTS, AND FITTINGS SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE DIVISION 33 - UTILITIES OF THE PROJECT SPECIFICATIONS.
- 7.4. CONTRACTOR SHALL COORDINATE THE OPERATION OF EXISTING VALVES AND HYDRANTS WITH THE CITY/TOWN PUBLIC WORKS DEPARTMENT.
- 7.5. ALL CURB STOP AND FIRE HYDRANT LOCATIONS SHALL BE VERIFIED WITH THE OWNER/ENGINEER PRIOR TO PLACEMENT.
- 7.6. THE EXACT TYPE AND SIZE OF EXISTING WATER MAIN/SERVICES ARE UNKNOWN. CONTRACTOR SHALL VERIFY SIZE, TYPE, AND LOCATION OF EXISTING MAINS/SERVICES AND ACQUIRE THE NECESSARY FITTINGS, VALVES, ADAPTORS, AND OTHER MATERIALS REQUIRED TO COMPLETE THE PROJECT. THIS INCLUDES HAVING A SMALL QUANTITY OF SERVICE LINE FITTINGS NOT NECESSARILY CALLED OUT ON THE PLANS. IF THE CONTRACTOR IS REQUIRED TO ACQUIRE/RETURN ANY FITTINGS, VALVES, ETC., THE COST OF SUPPLYING AND/OR RESTOCKING THE NECESSARY FITTINGS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
- 7.7. ALL WATER SERVICE CONNECTIONS NOT COVERED UNDER THE PROJECT DOCUMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE UNIFORM PLUMBING CODE AS ADOPTED BY MONTANA IN ARM 24.301.301.
- 7.8. ALL SEWER SERVICE LATERAL INSTALLATION AND/OR REPAIRS NOT COVER UNDER THE PROJECT DOCUMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH UNIFORM PLUMBING CODE AS ADOPTED BY MONTANA IN ARM 24.302.301.
- 7.9. THE CONTRACTOR SHALL NOTIFY THE OWNER/ENGINEER WHEN ADDITIONAL WATER OR SEWER SERVICES ARE ENCOUNTERED THAT ARE NOT SHOWN ON THE PLANS, WHETHER THEY ARE ACTIVE OR INACTIVE.

- | LEGEND  |      |   |                           |                          |
|---|------|---|---------------------------|--------------------------|
| EXIST   | ABBR | NEW   | UTILITY                   |                          |
|    | MH   |    | SEWER MANHOLE             |                          |
|    | FH   |   | FIRE HYDRANT              |                          |
|    | CS   |   | CURB STOP                 |                          |
|    | W V  |    | WATER VALVE BOX AND RISER |                          |
|    | RED  |    | REDUCER                   |                          |
|    | PP   |   | POWER POLE                |                          |
|    | LP   |   | LIGHT POLE                |                          |
|    | TR   |   | POWER TRANSFORMER         |                          |
|    | TP   |   | TELEPHONE PEDESTAL        |                          |
|    |      |   | UTILITY PEDESTAL (OTHER)  |                          |
| EXIST   |      | NEW   | LINETYPE                  |                          |
|    | 4W   |    | 6W                        | WATER MAIN & SIZE        |
|    | 8S   |   |                           | SEWER MAIN & SIZE        |
|   | G    |   |                           | GAS LINE                 |
|  | OE   |   |                           | ELECTRIC LINE (OVERHEAD) |
|  | BE   |   |                           | ELECTRIC LINE (BURIED)   |
|  | T    |   |                           | TELEPHONE (BURIED)       |
|  | OT   |   |                           | TELEPHONE (OVERHEAD)     |
|  | FO   |   |                           | FIBER OPTIC              |
|  |      |   |                           | ROADWAY CENTERLINE       |
|  |      |   |                           | RIGHT OF WAY             |
|  |      |   |                           | PROPERTY LINE            |
|  |      |   |                           | PUBLIC UTILITY EASEMENT  |
|  | 5500 |   |                           | INDEX CONTOUR            |
|  |      |   |                           | INTERMEDIATE CONTOUR     |
| EXIST   |      | NEW   | LINETYPE                  |                          |
|  |      |  |                           | CURB & GUTTER            |
|  |      |  |                           | CONCRETE                 |
|  |      |  |                           | ASPHALT                  |
|  |      |  |                           | GRAVEL                   |
|  |      |   |                           | SIGN                     |
|  |      |   |                           | STREET SIGN              |
|  |      |   |                           | MAIL BOX                 |
|  |      |   |                           | STUMP                    |
|  |      |   |                           | TREE (DECIDUOUS)         |
|  |      |   |                           | TREE (CONIFER)           |
|  |      |   |                           | TREE LINE                |
|  |      |   |                           | HEDGE                    |
|   |      |  |                           | DETAIL OR SECTION NUMBER |
|   |      |   |                           | SHEET NUMBER             |

[illegible]

LAUREL AVE WATER REPLACEMENT

CITY OF PLENTYWOOD, MT

PLENTYWOOD, MT

GENERAL CONSTRUCTION NOTES

Drawn By: \_\_\_\_\_

Checked By: \_\_\_\_\_

MDR

RK

Surveyed By: \_\_\_\_\_

Designed By: \_\_\_\_\_

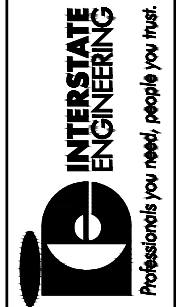
D.J.L

MDR

Project No: S21-00-029

Date: 04/2021

**Interstate Engineering, Inc.**  
P.O. Box 648  
2177 Lincoln Ave SE  
Sidney, MT 59270-0648  
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Fax (406) 433-5618  
[www.interstateeng.com](http://www.interstateeng.com)



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SUBMITTAL SUMMARY TABLE				
	DIVISION	SECTION - SPECIFICATION	MATERIAL - DELIVERABLES	NOTES
	DIVISION 00 - PROCUREMENT AND CONTRACTS	00 73 03 - FUNDING AGENCY SPECIAL PROVISIONS	FUNDING PROJECT SIGN	
	DIVISION 00 - PROCUREMENT AND CONTRACTS	00 73 03 - FUNDING AGENCY SPECIAL PROVISIONS	MANUFACTURER AIS CERTIFICATIONS (ALL STEEL CONTAINING ITEMS)	
	DIVISION 01 - GENERAL REQUIREMENTS	01 29 73 - SCHEDULE OF VALUES	LUMP SUM (LS) ITEM SCHEDULE OF VALUES	
	DIVISION 01 - GENERAL REQUIREMENTS	01 31 00 - PROJECT MANAGEMENT AND COORDINATION	STAGING AREA LOCATION/APPROVAL (IF REQUIRED)	
	DIVISION 01 - GENERAL REQUIREMENTS	01 32 00 - CONSTRUCTION PROGRESS DOCUMENTATION	PRELIMINARY CONSTRUCTION SCHEDULE	(UPDATED MONTHLY WITH PAY APPLICATIONS)
	DIVISION 01 - GENERAL REQUIREMENTS	01 35 43 - ENVIRONMENTAL PROCEDURES	ASBESTOS PROJECT PERMIT/PLAN (IF REQUIRED)	
	DIVISION 01 - GENERAL REQUIREMENTS	01 51 36 - TEMPORARY WATER	TEMPORARY WATER PLAN/SCHEDULE	(INCLUDES TEMPORARY WATER PIPE AND APPURTENANCES)
	DIVISION 01 - GENERAL REQUIREMENTS	01 55 26 - TRAFFIC CONTROL	TRAFFIC CONTROL PLAN	
	DIVISION 03 - CONCRETE	03 05 00 - COMMON WORK RESULTS FOR CONCRETE	EXPANSION JOINT MATERIAL	
	DIVISION 03 - CONCRETE	03 20 00 - CONCRETE REINFORCING	CONCRETE REINFORCEMENT	(INCLUDES REBAR AND DOWELS)
	DIVISION 03 - CONCRETE	03 31 00 - STRUCTURAL CONCRETE	CONCRETE MIX DESIGN (THRUST BLOCKS AND STANDARD MIX)	(INCLUDES CONCRETE ADMIXTURES, IF REQUIRED)
	DIVISION 03 - CONCRETE	03 39 00 - CONCRETE CURING	CONCRETE CURING AGENT/SEALERS	
	DIVISION 31 - EARTHWORK	31 23 23.33 - FLOWABLE FILL	FLOWABLE FILL MIX DESIGN (IF REQUIRED)	
	DIVISION 31 - EARTHWORK	31 23 33 - TRENCHING AND BACKFILL	TYPE I PIPE BEDDING	
	DIVISION 31 - EARTHWORK	31 23 33 - TRENCHING AND BACKFILL	TYPE II PIPE BEDDING	
	DIVISION 31 - EARTHWORK	31 23 33 - TRENCHING AND BACKFILL	IMPORT BACKFILL (IF REQUIRED)	
	DIVISION 32 - EXTERIOR IMPROVEMENTS	32 11 23 - AGGREGATE BASE COURSE	CRUSHED AGGREGATE BASE COURSE (BASE AND SURFACE COURSE(S))	
	DIVISION 32 - EXTERIOR IMPROVEMENTS	32 12 13 - PREPARATORY COATS	ASPHALT TACK COAT	
	DIVISION 32 - EXTERIOR IMPROVEMENTS	32 12 16 - ASPHALT PAVING	ASPHALT PAVING MIX DESIGN	
	DIVISION 32 - EXTERIOR IMPROVEMENTS	32 92 19 - SEEDING	LANDSCAPING	(INCLUDES SEED MIX(ES) AND TOPSOIL)
	DIVISION 33 - UTILITIES	33 01 12 - INSPECTION AND TESTING OF WATER UTILITIES	TESTING PLAN/SCHEDULE	(INCLUDES CHLORINE FOR DISINFECTION)
	DIVISION 33 - UTILITIES	33 05 00 - COMMON WORK RESULTS FOR UTILITIES	DETECTABLE WARNING TAPE	
	DIVISION 33 - UTILITIES	33 05 00 - COMMON WORK RESULTS FOR UTILITIES	POLYETHYLENE ENCASEMENT	
	DIVISION 33 - UTILITIES	33 05 00 - COMMON WORK RESULTS FOR UTILITIES	UTILITY INSULATION BOARD	
	DIVISION 33 - UTILITIES	33 05 00 - COMMON WORK RESULTS FOR UTILITIES	TRACER WIRE	
	DIVISION 33 - UTILITIES	33 05 00 - COMMON WORK RESULTS FOR UTILITIES	TRACER WIRE TERMINATIONS	(INCLUDES ACCESS BOXES, ANODES BAGS, GROUNDING RODS, ETC.)
	DIVISION 33 - UTILITIES	33 05 00 - COMMON WORK RESULTS FOR UTILITIES	TRACER WIRE CONNECTIONS	
	DIVISION 33 - UTILITIES	33 14 13 PUBLIC WATER UTILITY DISTRIBUTION PIPING	WATER MAIN PIPE	(PVC, HDPE (IF REQUIRED))
	DIVISION 33 - UTILITIES	33 14 13 PUBLIC WATER UTILITY DISTRIBUTION PIPING	DUCTILE IRON FITTINGS (VARIOUS SIZE & TYPE)	
	DIVISION 33 - UTILITIES	33 14 13 PUBLIC WATER UTILITY DISTRIBUTION PIPING	PIPE COUPLINGS	
	DIVISION 33 - UTILITIES	33 14 13 PUBLIC WATER UTILITY DISTRIBUTION PIPING	MECHANICAL JOINT RESTRAINTS	
	DIVISION 33 - UTILITIES	33 14 13 PUBLIC WATER UTILITY DISTRIBUTION PIPING	BELL RESTRAINTS	
	DIVISION 33 - UTILITIES	33 14 17 SITE WATER UTILITY SERVICE LATERALS	WATER SERVICE PIPE	
	DIVISION 33 - UTILITIES	33 14 17 SITE WATER UTILITY SERVICE LATERALS	CORPORATION STOP	
	DIVISION 33 - UTILITIES	33 14 17 SITE WATER UTILITY SERVICE LATERALS	SERVICE SADDLES	
	DIVISION 33 - UTILITIES	33 14 17 SITE WATER UTILITY SERVICE LATERALS	CURB STOP	
	DIVISION 33 - UTILITIES	33 14 17 SITE WATER UTILITY SERVICE LATERALS	CURB BOX	
	DIVISION 33 - UTILITIES	33 14 17 SITE WATER UTILITY SERVICE LATERALS	SERVICE PIPE COUPLINGS	
	DIVISION 33 - UTILITIES	33 14 17 SITE WATER UTILITY SERVICE LATERALS	METER PIT	
	DIVISION 33 - UTILITIES	33 14 19 VALVES AND HYDRANTS FOR WATER UTILITY SERVICE	GATE VALVES	
	DIVISION 33 - UTILITIES	33 14 19 VALVES AND HYDRANTS FOR WATER UTILITY SERVICE	VALVE BOX	
	DIVISION 33 - UTILITIES	33 14 19 VALVES AND HYDRANTS FOR WATER UTILITY SERVICE	FIRE HYDRANT	
NOTES:				
1. THIS LIST IS NOT MEANT TO BE ALL INCLUSIVE OF THE MATERIAL REQUIRED UNDER THIS PROJECT COVER. REFERENCE THE SPECIFICATIONS SECTION FOR ADDITIONAL MATERIAL AND SEQUENCING SUBMITTAL REQUIREMENTS.				

Rev	Description	
No	By	Date

LAUREL AVE WATER REPLACEMENT CITY OF PLENTYWOOD, MT PLENTYWOOD, MT		SUBMITTAL SUMMARY		Project No: S21-00-029	Date: 04/2021
Drawn By: MDR	Surveyed By: DIL	MDR	MDR	Drawn By: RK	Designed By: RK



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UNIT QUANTITY SUMMARY - BASE BID									
	ITEM NUMBER	DESCRIPTION	UNIT	SHEET QTY					TOTAL QTY
				C-2	C-3	C-4	C-5	C-6	BASE BID
	101	MOBILIZATION, TAXES, BONDS AND INSURANCE	LS	-	-	-	-	-	1
	102	6" C900 DR18 PVC WATER MAIN	LF	457	232	505	-	-	1194
	103	6" GATE VALVE AND RISER	EA	3	1	3	-	-	7
	104	6" 45° BEND	EA	-	-	1	-	-	1
	105	6" 22.5° BEND	EA	-	1	1	-	-	2
	106	8"x6" TEE	EA	1	1	1	-	-	3
	107	CONNECT TO EXISTING MAIN	EA	2	2	2	-	-	6
	108	FIRE HYDRANT ONLY	EA	2	-	2	-	-	4
	109	FIRE HYDRANT LEAD	LF	55	-	55	-	-	110
	110	1" WATER SERVICE CONNECTION	EA	10	1	6	-	-	16
	111	TRACER WIRE	LF	512	232	560	-	-	1304
	112	CURB AND GUTTER REMOVAL/REPLACEMENT	LF	20	-	20	-	-	40
	113	CONCRETE REMOVE/REPLACEMENT	SY	20	-	11	-	-	20
	114	ASPHALT RESTORATION	SY	400	185	440	-	300	1325
	115	GRASS RESTORATION	SY	48	16	40	-	-	104
	116	EXPLORATORY EXCAVATION	HR	-	-	-	-	-	1
	117	TYPE II BEDDING	CY	-	-	-	-	-	-
	118	TRAFFIC CONTROL	LS	-	-	-	-	-	1
	119	TEMPORARY WATER	LS	-	-	-	-	-	1
	120	MATERIALS TESTING	UNIT	-	-	-	-	-	1
	121	MISCELLANEOUS WORK	UNIT	-	-	-	-	-	1
	122	2019 EMERGENCY WATERLINE REPLACEMENT PROJECT ASPHALT RESTORATION	SY	-	-	-	1490	-	1490
	123	6" VALVE REPLACEMENT, COMPLETE IN PLACE	EA	-	-	-	-	3	3
	124	3" VALVE REPLACEMENT OWNER FURNISHED VALVE	EA	-	-	-	-	1	1
NOTES: 1. ALL QUANTITIES SHOWN ARE APPROXIMATE AND PROVIDED FOR CONVENIENCE ONLY. 2. ALL CONCRETE MUST BE REMOVED BACK TO THE NEAREST JOINT.									

Rev	Description	
No	By	Date

LAUREL AVE WATER REPLACEMENT  
CITY OF PLENTYWOOD, MT  
PLENTYWOOD, MT

QUANTITY SUMMARY

Drawn By: 

MDR

Surveyed By: 

DJL

Checked By: 

RK

Project No: 

S21-00-029

Date: 

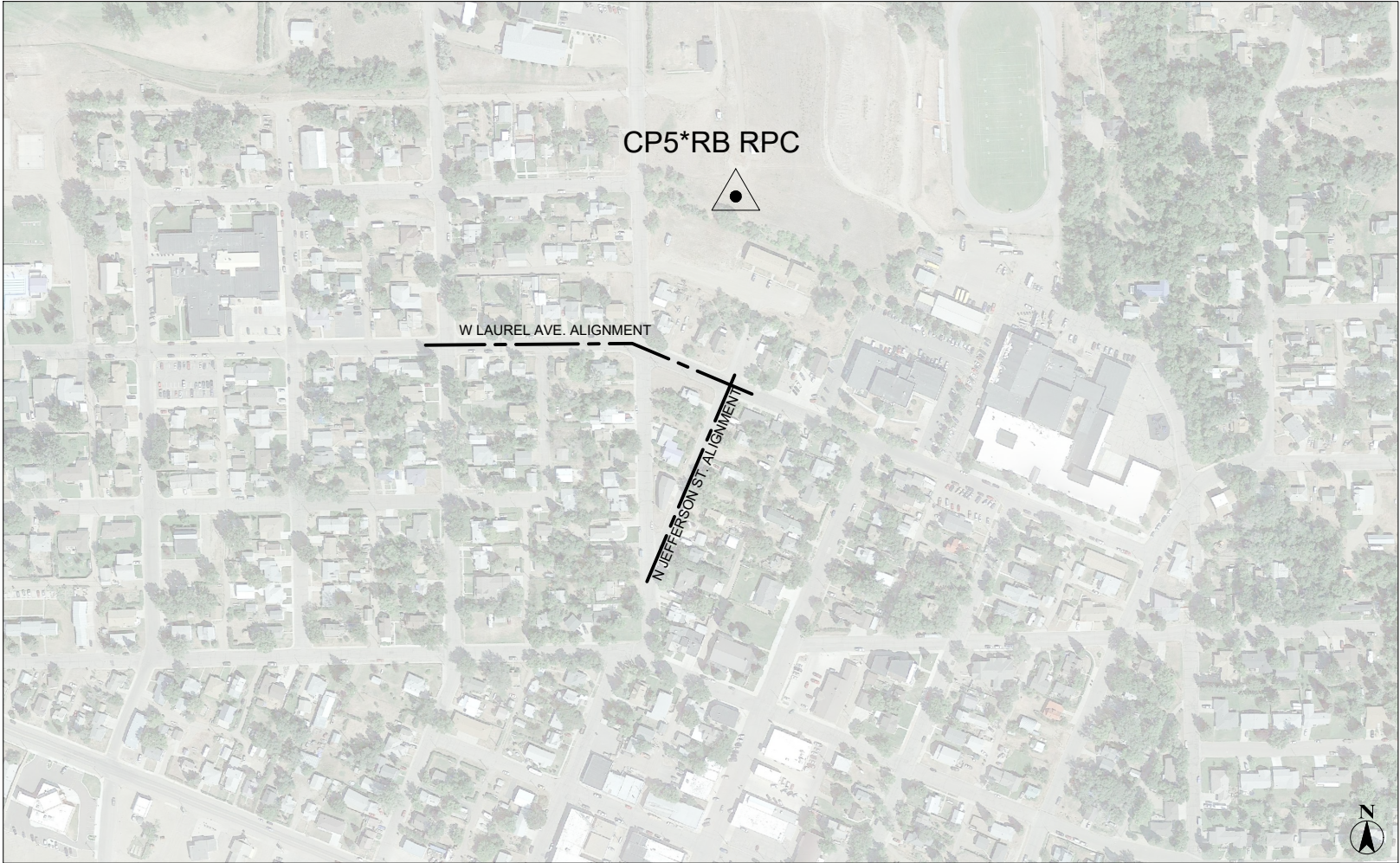
04/2021



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**SITE MAP**  
NOT TO SCALE

ALIGNMENT SUMMARY TABLE			
ALIGNMENT	STA.	N.	E.
BEGIN - W LAUREL AVE	100+00.00	327925.301	554493.340
CORNER 1	104+97.23	327929.102	554990.559
END - W LAUREL AVE	108+10.00	327807.419	555278.683
BEGIN - N JEFFERSON ST	200+00.00	327853.177	555236.855
END - N JEFFERSON ST	205+17.85	327356.061	555025.960
<b>NOTES:</b> 1. DESCRIPTIONS AND LOCATIONS OF ALIGNMENTS IN RELATION TO THE DESCRIBED REFERENCE POINT AND/OR OBJECT ARE ALL APPROXIMATE AND DO NOT REPRESENT CENTERLINE OF WATER MAIN. REFERENCED STREETS (ST.) AND AVENUES (AVE.) MAY BE ABANDONED. INFORMATION HAS BEEN PROVIDED AS REFERENCE ONLY. LOCATION OF WATER MAINS AND APPURTENANCES SHALL BE BASED ON STATION OFF-SETS SPECIFIED ON THE DRAWINGS.  2. ALIGNMENT W LAUREL AVE - STA. 100+00.00 TO STA. 108+10: SEGMENT FOLLOWS THE APPROXIMATE CENTERLINE OF EXISTING ROAD FOR W LAUREL AVE. STA.  3. ALIGNMENT N JEFFERSON ST - STA. 200+00.00 TO STA. 205+40: SEGMENT FOLLOWS THE APPROXIMATE CENTERLINE OF EXISTING ROAD FOR N JEFFERSON ST.			

PROJECT CONTROL / BENCHMARK			
POINT NO.	N.	E.	ELV.
CP-5	328283.203	555239.613	2094.828
MTSY	332062.172	352490.300	2504.376

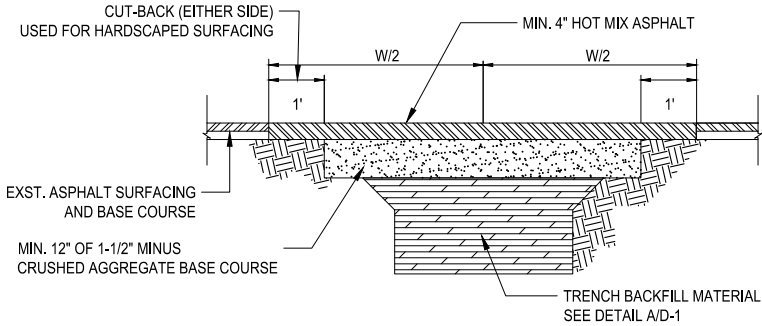
- NOTES:**
- CP-5 - LOCATED ON HILL WEST OF PLENTYWOOD HIGH SCHOOL FOOTBALL FIELD.
  - MTSY - NGS CORS (CONTINUOUSLY OPERATING REFERENCE STATIONS) LOCATED JUST EAST OF SCOBEY, MT.
  - GEODETIC NORTH OUT OF CP-5.
  - CP-5 ELEVATION DERIVED FROM GEOID 18(Conus) USING MIDSTATES VRS FROM MTRC.
  - PROJECT SITE BENCHMARKS TO BE PROVIDED IF REQUESTED BY CONTRACTOR. REFER TO SECTION 01 71 23 FIELD ENGINEERING AND SURVEYING FOR ADDITIONAL INFORMATION.

Rev	Date	By	Description

LAUREL AVE WATER REPLACEMENT CITY OF PLENTYWOOD, MT PLENTYWOOD, MT			
SURVEY SUMMARY			
Drawn By: MDR	Surveyed By: DILL	Project No: S21-00-029	
Checked By: RK	Designed By: MDR	Date: 04/2021	

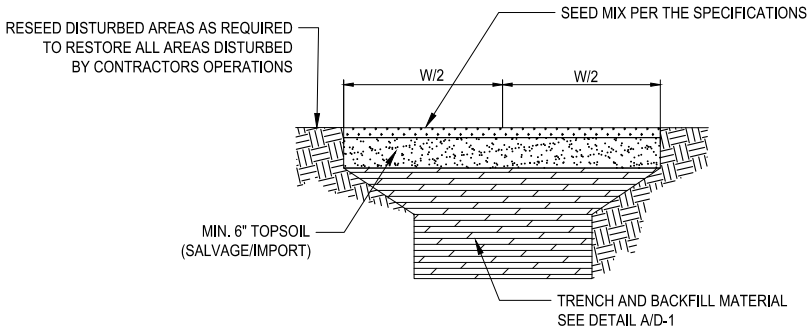
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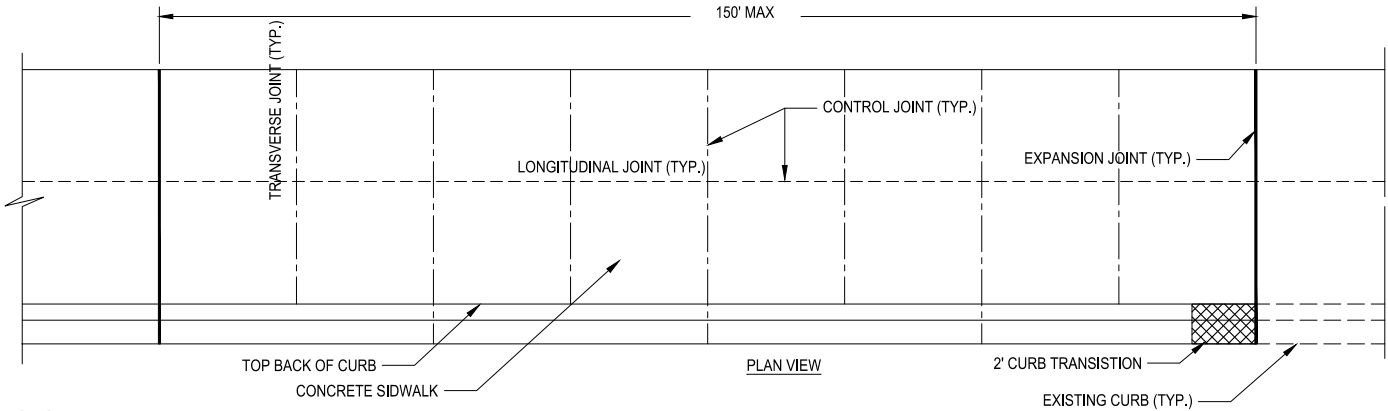
- NOTES:
- HOT MIX ASPHALT SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 32 12 16 ASPHALT PAVING.
  - CRUSHED AGGREGATE BASE COURSE SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 32 11 23 AGGREGATE BASE COURSE.
  - HOT MIX ASPHALT SHALL BE PLACED AND COMPACTED IN 2 LIFTS.
  - CRUSHED AGGREGATE BASE COURSE SHALL BE PLACED AND COMPACTED IN 2 LIFTS.
  - WHEN THE EDGE OF THE ASPHALT CUT-BACK IS LESS THAN 2 FEET FROM A PERMANENT SURFACE AND/OR OBJECT AND IS LOCATED OUTSIDE THE ESTABLISHED PAY LIMIT, THE ASPHALT SHALL BE REMOVED TO THE PERMANENT SURFACE AND/OR OBJECT AND RESTORED. THE EXTRA SURFACE RESTORATION SHALL BE ADDED IN THE PAY QUANTITY.
  - PAY LIMITS FOR SURFACE RESTORATION SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF SECTION 01 22 19 MEASUREMENT AND PAYMENT. "W" REPRESENTS THE PAY LIMIT AS MEASURED OVER THE CENTERLINE OF THE UTILITY BEING INSTALLED.

**A**  
**D-1** **ASPHALT RESTORATION DETAIL**  
Scale: NTS



- NOTES:
- SEEDING AND GRASS RESTORATION SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 32 92 19 SEEDING.
  - PAY LIMITS FOR SURFACE RESTORATION SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF SECTION 01 22 19 MEASUREMENT AND PAYMENT. "W" REPRESENTS THE PAY LIMIT AS MEASURED OVER THE CENTERLINE OF THE UTILITY BEING INSTALLED.
  - RESTORATION REQUIRED OUTSIDE OF THE ESTABLISHED PAY LIMITS DUE TO CONTRACTOR'S OPERATIONS SHALL NOT BE INCLUDED IN THE PAY QUANTITIES.

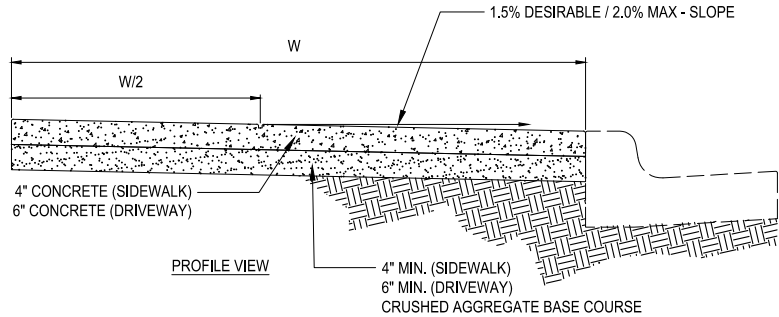
**B**  
**D-1** **GRASS RESTORATION DETAIL**  
Scale: NTS



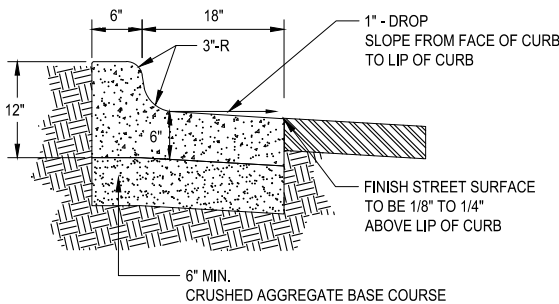
- NOTES:
- WIDTH OF SIDEWALK "W" SHALL BE A MINIMUM 5', UNLESS OTHERWISE APPROVED BY OWNER/ENGINEER PRIOR TO PLACEMENT.
  - 5' TYPICAL CONTROL JOINT SPACING FOR SIDEWALK UNLESS OTHERWISE SPECIFIED IN DETAIL D/D1, BUT AT NO TIME SHALL THE "L" TO "W" RATIO BE GREATER THAN 125%.
  - 10' TYPICAL CONTROL JOINT SPACING FOR CURB WITH ADDITIONAL CONTROL JOINTS PLACED AT TOP AND BOTTOM OF DRIVEWAY CURB TRANSITIONS.
    - WHEN BOTH SIDEWALK AND CURB ARE NEW, CONTROL JOINTS FOR SIDEWALK AND CURB SHALL BE ALIGNED AS SHOWN IN THE DETAIL.
  - FULL DEPTH EXPANSION JOINTS USING 1/2" PJF SHALL BE INSTALLED EVERY 150' AND/OR WHEN SIDEWALK IS PLACED AGAINST ANY RIGID STRUCTURE.
  - WHEN TRANSITIONING FROM NEW TO EXISTING CURB, THE CONTRACTOR SHALL MATCH FLOW LINES FROM DESIRED CURB PROFILE TO EXISTING PROFILE.

**C**  
**D1** **CURB AND SIDEWALK PLAN VIEW DETAIL**  
Scale: NTS

- NOTES:
- SIDEWALK SHALL BE FURNISHED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 03 30 00 CAST-IN-PLACE CONCRETE.
  - LONGITUDINAL JOINTS SHALL BE REQUIRED WHEN THE WIDTH OF SIDEWALK "W" EXCEEDS 10'. WHEN REQUIRED THE LONGITUDINAL JOINT SHALL BE PLACED AT W/2.
  - TRANSVERSE CONTROL JOINTS SHALL BE SPACED TO MATCH THE WIDTH OF SIDEWALK "W" WHEN WIDTH OF SIDEWALK IS LESS THAN 10'.
  - ALL CONTROL JOINTS SHALL BE 1/4 OF THE THICKNESS OF CONCRETE.
  - SIDEWALK EDGES AND CONTROL JOINTS SHALL BE FURNISHED WITH A TOOLED 1/4" RADIUS CHAMFER.
  - CONCRETE DRIVEWAYS SHALL BE FURNISHED WITH REBAR REINFORCEMENT IF REQUESTED BY OWNER/ENGINEER.
  - NO GREEN SAW CUTTING WILL BE PERMITTED.

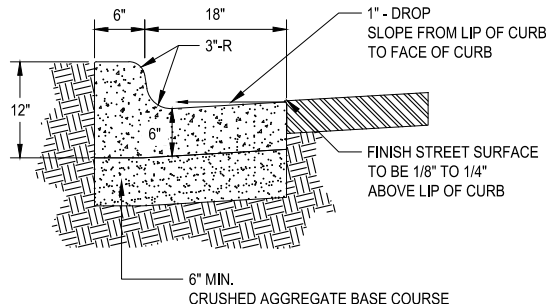


**D**  
**D1** **SIDEWALK DETAIL**  
Scale: NTS



- NOTES:
- CURB AND GUTTER SHALL BE FURNISHED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 32 16 13 CURBS AND GUTTERS.
  - TOP BACK OF CURB AND LIP OF CURB SHALL BE FURNISHED WITH A 1/4" RADIUS CHAMFER.

**E**  
**D1** **SPILL CURB DETAIL**  
Scale: NTS



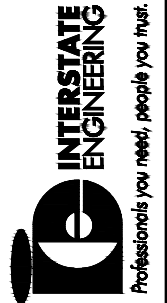
- NOTES:
- CURB AND GUTTER SHALL BE FURNISHED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 32 16 13 CURBS AND GUTTERS.
  - TOP BACK OF CURB AND LIP OF CURB SHALL BE FURNISHED WITH A 1/4" RADIUS CHAMFER.

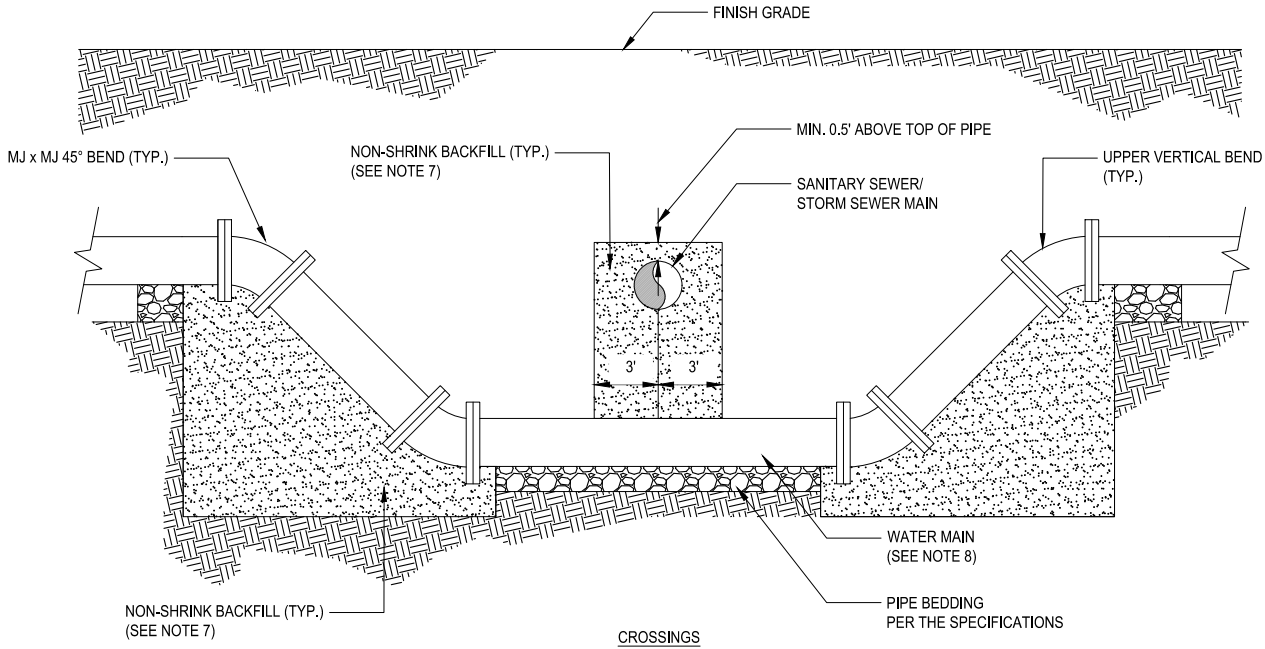
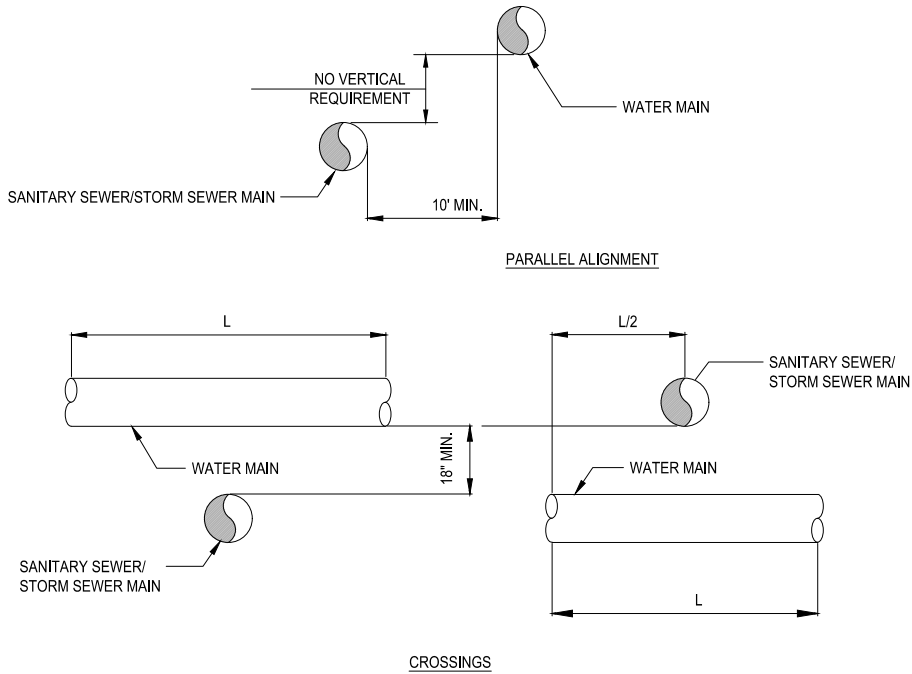
**F**  
**D1** **CATCH CURB DETAIL**  
Scale: NTS

Rev	No	Date	By	Description

LAUREL AVE WATER REPLACEMENT CITY OF PLENTYWOOD, MT PLENTYWOOD, MT		Project No: S21-00-029	Date: 04/2021
DETAILS		Drawn By: MDR	Checked By: RK
Surveyed By: DUL		Designed By: MDR	

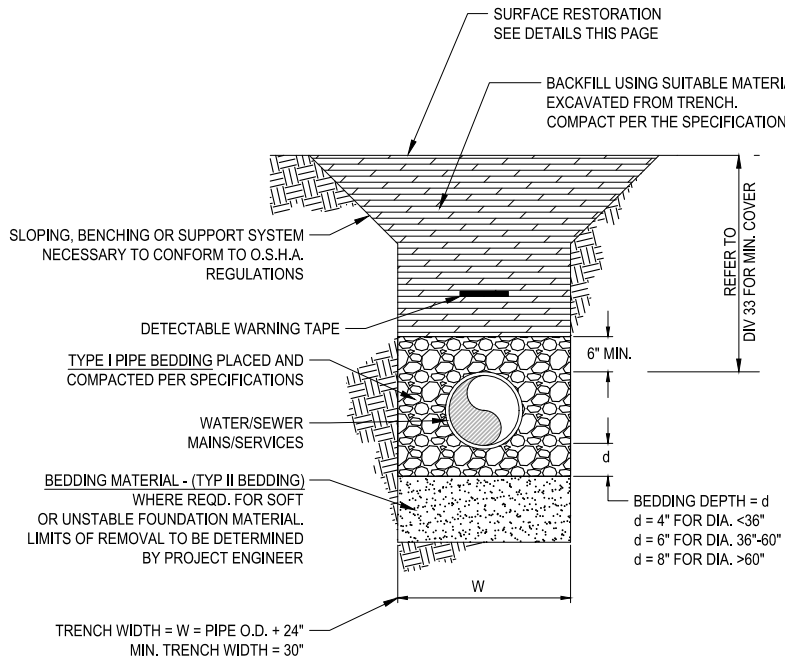
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- NOTES:
1. WATER MAINS CROSSING GRAVITY/PRESSURE SANITARY OR STORM SEWERS (SEWERS), WHETHER THE WATER MAIN IS ABOVE OR BELOW THE SEWER, MUST BE LAID WITH A MINIMUM 1.5' (18") VERTICAL AND 10' HORIZONTAL SEPARATION BETWEEN THE OUTSIDE OF WATER MAIN AND THE OUTSIDE OF SEWER, PER MONTANA DEPT. OF ENVIRONMENTAL QUALITY (MDEQ) STANDARDS.
  2. ADDITIONAL SEPARATIONS MAY BE REQUIRED PER THE PROJECT PLANS AND SPECIFICATIONS AND SHALL SUPERSEDE THIS DETAIL.
  3. IN THE EVENT FIELD CONDITIONS PROVE THAT THE STANDARD VERTICAL AND/OR HORIZONTAL SEPARATIONS CANNOT BE MET, THE CONTRACTOR SHALL NOTIFY THE ENGINEER/OWNER PRIOR TO PROCEEDING WITH INSTALLATION OF UTILITY.
  - 3.1. REFER TO SECTION 33 05 00 COMMON WORK RESULTS FOR UTILITIES FOR ADDITIONAL INFORMATION.
  4. CROSSINGS MUST BE ARRANGED SO THAT SEWER JOINTS WILL BE PLACED EQUIDISTANT AND AS FAR FROM WATER MAIN JOINTS AS POSSIBLE.
  5. WATER/SEWER CROSSINGS SHALL BE MADE AS CLOSE TO 90° AS POSSIBLE AND HAVE A STANDARD LENGTH OF PIPE, "L" AS SUPPLIED BY THE PIPE MANUFACTURER, CENTERED AT THE POINT OF CROSSING.
  6. WHERE WATER MAINS/SERVICES CROSS UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT MUST BE PROVIDED FOR THE SEWER TO MAINTAIN LINE AND GRADE WITHOUT DAMAGE TO THE WATER/SEWER MAIN.
  7. NON-SHRINK BACKFILL SHALL BE PROVIDED 3' EITHER SIDE OF WATER/SEWER MAIN CROSSING AND BELOW VERTICAL 45° BENDS.
  8. WHEN LOWERING WATER MAINS REQUIRE VERTICAL BENDS EITHER BY DESIGN OR VERIFIED FIELD CONDITIONS, THE WATER MAIN SHALL HAVE FULLY RESTRAINED JOINTS FROM UPPER VERTICAL BEND TO UPPER VERTICAL BEND.

**A**  
**D2** **WATER AND SEWER MAIN SEPARATION DETAIL**  
Scale: NTS



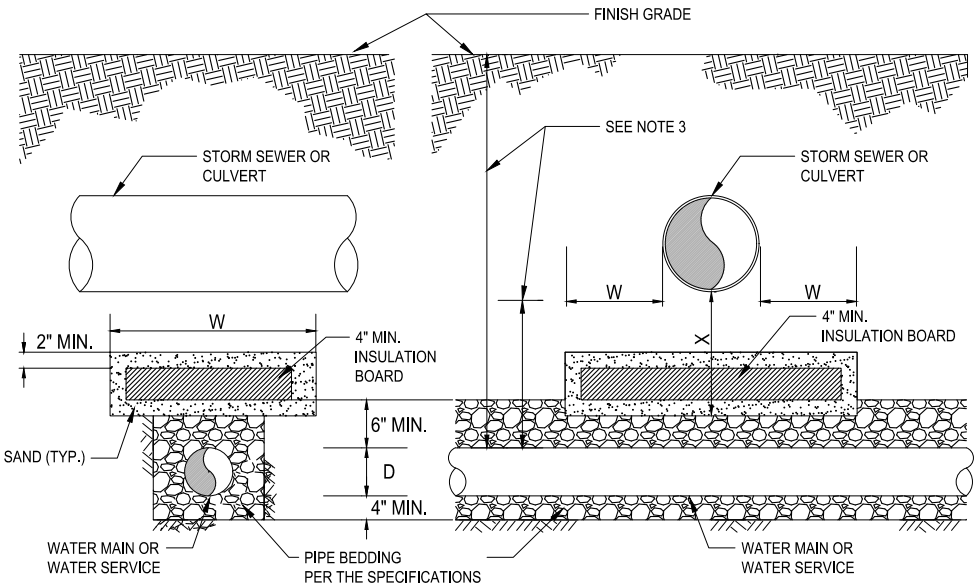
- NOTES:
1. TRENCHING AND EXCAVATION SHALL BE PERFORMED IN ACCORDANCE WITH THE PROVISIONS OF DIVISION 31 EARTHWORK AND DIVISION 33 UTILITIES.
  2. SEE CONTRACT SPECIFICATIONS FOR ANY MODIFICATIONS TO STANDARD TRENCH MATERIALS AND/OR TRENCH DESIGN FEATURES.
  3. PIPE INSTALLED VIA "OPEN CUT" METHODS SHALL BE FURNISHED AND INSTALLED WITH DETECTABLE WARNING TAPE. PIPE SHALL INCLUDE MAINS, SERVICES, AND HYDRANT LEADS AS APPLICABLE.
  4. DETECTABLE WARNING TAPE SHALL BE PLACED 24" TO 36" ABOVE THE PIPE, OR AS APPROVED BY OWNER/ENGINEER.
  5. TRACER WIRE SHALL BE INSTALLED ON ALL WATER MAINS, SERVICES, AND HYDRANT LEADS. REFER TO SECTION 33 05 00 COMMON WORK RESULTS FOR UTILITIES.

**B**  
**D2** **TRENCH BACKFILL**  
Scale: NTS

- NOTES:
1. TABLE IS BASED ON FROST DEPTH OF 6.0', AND SHALL APPLY TO WATER MAINS AND SERVICES.
  2. REFER TO PLAN SHEETS FOR SIZE AND TYPE OF WATER MAIN. IF SPECIFIC PIPE DIAMETER IS NOT SPECIFIED USE THE NEAREST LARGER PIPE DIAMETER.
  3. INSULATION BOARD SHALL BE INSTALLED FOR ALL WATER MAINS AND SERVICES NOT HAVING A MINIMUM OF 6.0' OF COVER AS MEASURED FROM TOP OF WATER MAIN/SERVICE TO FINISH GRADE ELEVATION AND/OR MINIMUM 4.0' OF CLEARANCE BETWEEN TOP OF WATER MAIN/SERVICE AND BOTTOM OF STORM SEWERS.
  4. 4" INSULATION BOARD SHALL BE ENVELOPED IN A 2" THICK SAND BEDDING ON ALL SIDES.

		INSULATION WIDTH/LENGTH (FT) - "W"									
		PIPE DIAMETER (IN) - "D"									
INSULATION DEPTH (FT) - "X"	0.5	10.17	10.33	10.50	10.67	10.83	11.00	11.17	11.33	11.50	
	1.0	9.17	9.33	9.50	9.67	9.83	10.00	10.17	10.33	10.50	
	1.5	8.17	8.33	8.50	8.67	8.83	9.00	9.17	9.33	9.50	
	2.0	7.17	7.33	7.50	7.67	7.83	8.00	8.17	8.33	8.50	
	2.5	6.17	6.33	6.50	6.67	6.83	7.00	7.17	7.33	7.50	
	3.0	5.17	5.33	5.50	5.67	5.83	6.00	6.17	6.33	6.50	
	3.5	4.17	4.33	4.50	4.67	4.83	5.00	5.17	5.33	5.50	
	4.0	3.17	3.33	3.50	3.67	3.83	4.00	4.17	4.33	4.50	
	4.5	2.17	2.33	2.50	2.67	2.83	3.00	3.17	3.33	3.50	
	5.0	1.17	1.33	1.50	1.67	1.83	2.00	2.17	2.33	2.50	
	5.5	0.17	0.33	0.50	0.67	0.83	1.00	1.17	1.33	1.50	

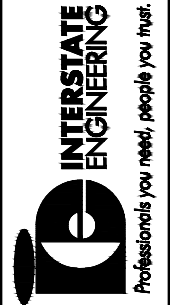
**C**  
**D2** **PIPE INSULATION BOARD DETAIL**  
Scale: NTS

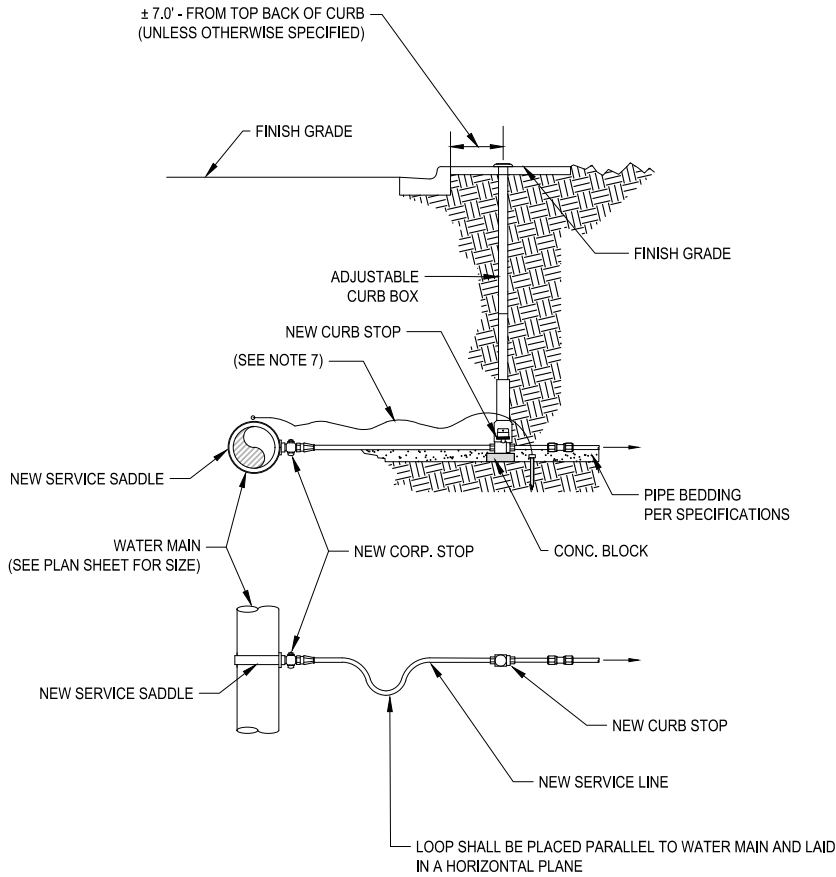


Rev	No	Date	By	Description

LAUREL AVE WATER REPLACEMENT CITY OF PLENTYWOOD, MT PLENTYWOOD, MT				DETAILS	
Drawn By:	MDR	Surveyed By:	MDR	Project No:	S21-00-029
Checked By:	RK	Designed By:	MDR	Date:	04/2021

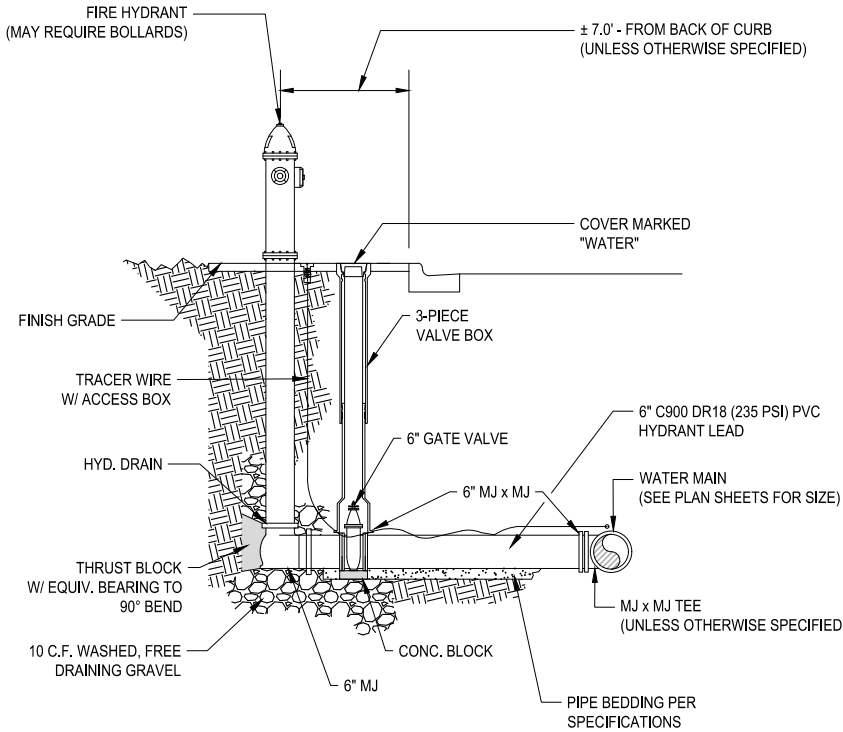
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- NOTES:
1. ALL SERVICE LINE PIPE AND APPURTENANCES SHALL CONFORM TO THE PROVISIONS OF SECTION 33 14 17 SITE WATER UTILITY SERVICE LATERALS.
  2. CURB BOXES PLACED IN CONCRETE SHALL BE PLACED FLUSH WITH FINISH GRADE OF CONCRETE AND HAVE TOP PORTION PROTECTED FROM CONCRETE DURING CONSTRUCTION.
  3. CURB STOP LOCATIONS SHALL BE FIELD VERIFIED AND APPROVED BY OWNER/ENGINEER PRIOR TO PLACEMENT.
  4. NO COUPLINGS ARE PERMITTED BETWEEN THE CORPORATION STOP AND THE CURB STOP UNLESS OTHERWISE SPECIFIED AND APPROVED.
  5. THE EXACT SIZE AND TYPE OF SERVICES ARE UNKNOWN.
  6. SERVICE LINE SHALL BE MINIMUM 1" NOMINAL SIZE OR MATCH EXISTING SERVICE LINE, WHICH EVER IS GREATER, UNLESS OTHERWISE APPROVED BY OWNER/ENGINEER.
  7. TRACER WIRE SHALL BE INSTALLED ALONG THE LENGTH OF SERVICE LINE AND BE TERMINATED AT THE FINAL LOCATION OF CURB STOP VIA AN ANODE OR GROUNDING ROD.
  8. FINAL CURB STOP LOCATIONS SHALL BE FIELD VERIFIED AND APPROVED BY OWNER/ENGINEER.

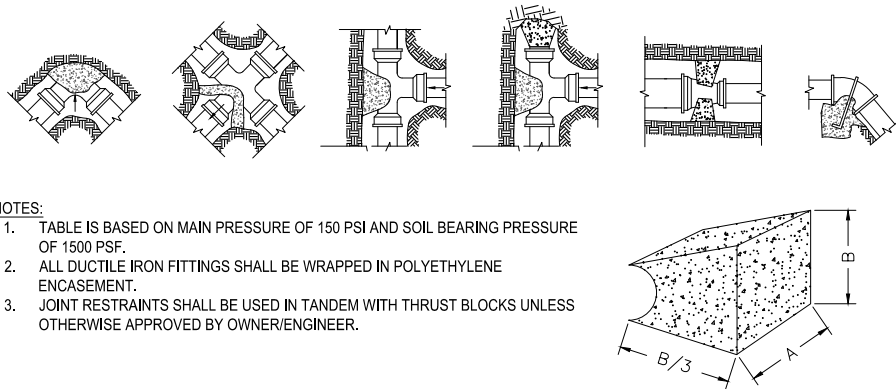
**A**  
**D3** **WATER SERVICE CONNECTION DETAIL**  
Scale: NTS



- NOTES:
1. ALL FIRE HYDRANT AND APPURTENANCES SHALL CONFORM TO THE PROVISIONS OF SECTION 33 14 19 VALVES AND HYDRANTS FOR WATER UTILITY SERVICE.
  2. NO BENDS OR EXTENSIONS ARE PREFERRED ON HYDRANT LEAD, USE 45° BENDS AND/OR EXTENSIONS WHEN REQUIRED AND APPROVED BY OWNER/ENGINEER.
  3. BOLTS, FITTINGS, AND DRAIN HOLE SHALL NOT BE OBSTRUCTED BY THRUST BLOCKING.
  4. FIRE HYDRANTS SHALL BE SET IN 10 CUBIC FEET OF WASHED FREE DRAINING GRAVEL TO ALLOW FOR PROPER DRAINAGE OF HYDRANTS OF THE DRY BARREL DESIGN.
  5. REFER TO AWWA STANDARDS FOR RECOMMENDATIONS OF INSTALLING FIRE HYDRANTS.
  6. ALL HYDRANT LEADS SHALL BE 6" AWWA C900 DR-18 PVC.
  7. FIRE HYDRANT SAFETY FLANGE SHALL BE SET AT NO MORE THAN 8", AND NO LESS THAN 2" ABOVE FINAL GRADE.
  8. FIRE HYDRANT AND AUXILIARY VALVE LOCATIONS SHALL BE FIELD VERIFIED AND APPROVED BY OWNER/ENGINEER PRIOR TO PLACEMENT.
  9. TRACER WIRE SHALL BE INSTALLED ALONG THE LENGTH OF HYDRANT LEADS AND BE TERMINATED AT THE FINAL LOCATION OF HYDRANTS USING A TRACE WIRE ACCESS BOX.
  10. FINAL HYDRANT LOCATIONS SHALL BE FIELD VERIFIED AND APPROVED BY OWNER/ENGINEER.

**B**  
**D3** **HYDRANT ASSEMBLY DETAIL**  
Scale: NTS

STANDARD DIMENSIONS FOR THRUST BLOCKS (FT)								
FITTING SIZE	TEES/DEAD ENDS		90° BEND		45° BEND		22.5° BEND	
	A	B	A	B	A	B	A	B
4	1.79	1.19	2.13	1.42	1.57	1.04	1.12	0.75
6	2.69	1.79	3.19	2.13	2.35	1.57	1.68	1.12
8	3.58	2.39	4.26	2.84	3.13	2.09	2.24	1.49
10	4.48	2.98	5.32	3.55	3.92	2.61	2.80	1.86
12	5.37	3.58	6.39	4.26	4.70	3.13	3.35	2.24
14	6.27	4.18	7.45	4.97	5.48	3.65	3.91	2.61
16	7.16	4.77	8.52	5.68	6.26	4.18	4.47	2.98
18	8.06	5.37	9.58	6.39	7.05	4.70		3.35



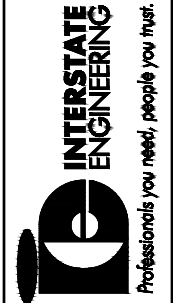
- NOTES:
1. TABLE IS BASED ON MAIN PRESSURE OF 150 PSI AND SOIL BEARING PRESSURE OF 1500 PSF.
  2. ALL DUCTILE IRON FITTINGS SHALL BE WRAPPED IN POLYETHYLENE ENCASEMENT.
  3. JOINT RESTRAINTS SHALL BE USED IN TANDEM WITH THRUST BLOCKS UNLESS OTHERWISE APPROVED BY OWNER/ENGINEER.

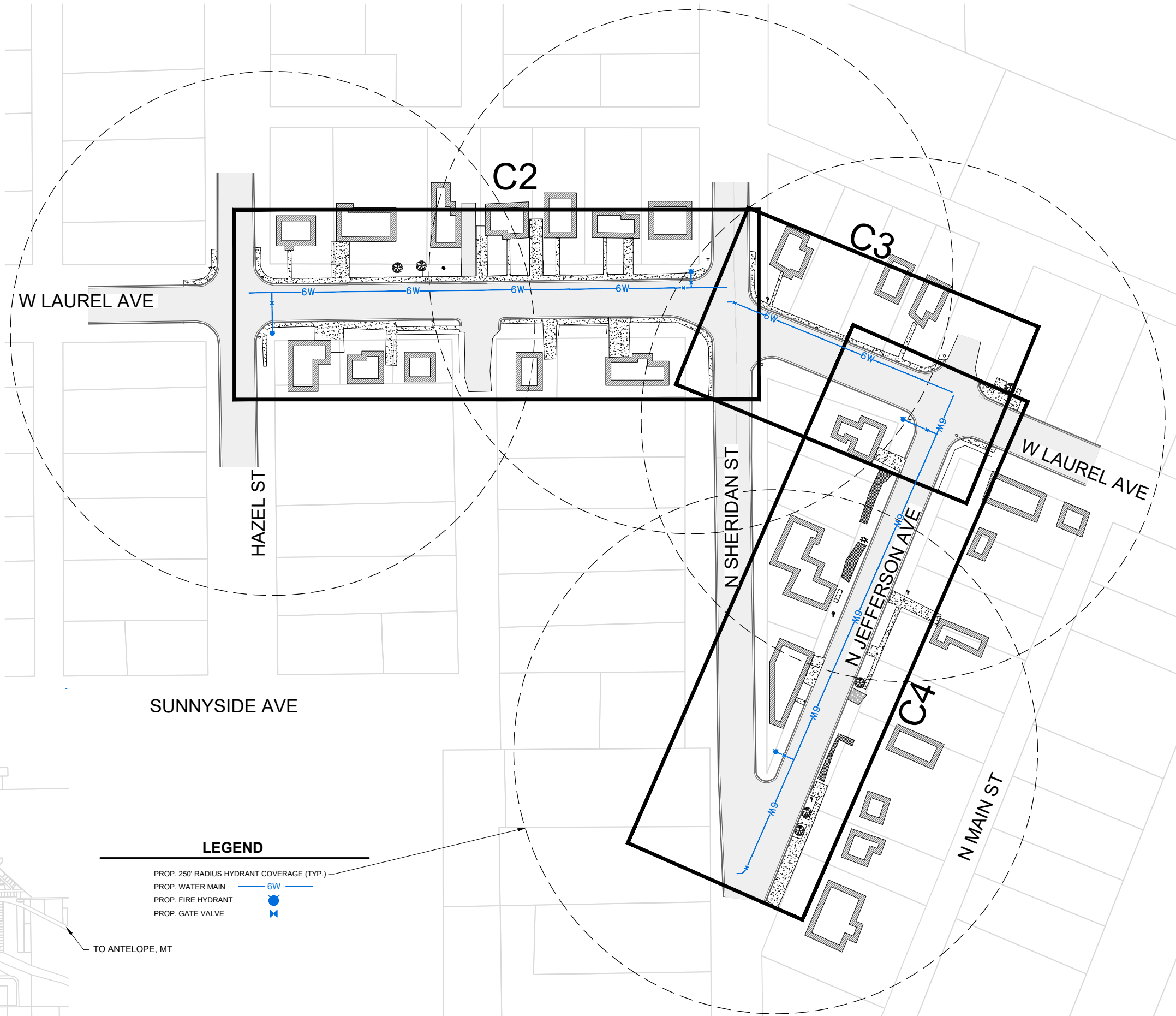
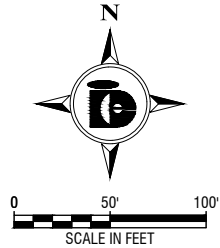
**C**  
**D3** **THRUST BLOCK DETAIL**  
Scale: NTS

Rev No	By	Date	Description

LAUREL AVE WATER REPLACEMENT CITY OF PLENTYWOOD, MT PLENTYWOOD, MT			
DETAILS			
Drawn By: MDR	Surveyed By: DILL	Project No: S21-00-029	Date: 04/2021
Checked By: RK	Designed By: MDR		

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**LEGEND**

PROP. 250' RADIUS HYDRANT COVERAGE (TYP.)

PROP. WATER MAIN — 6W —

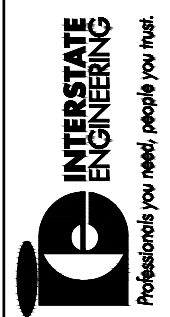
PROP. FIRE HYDRANT

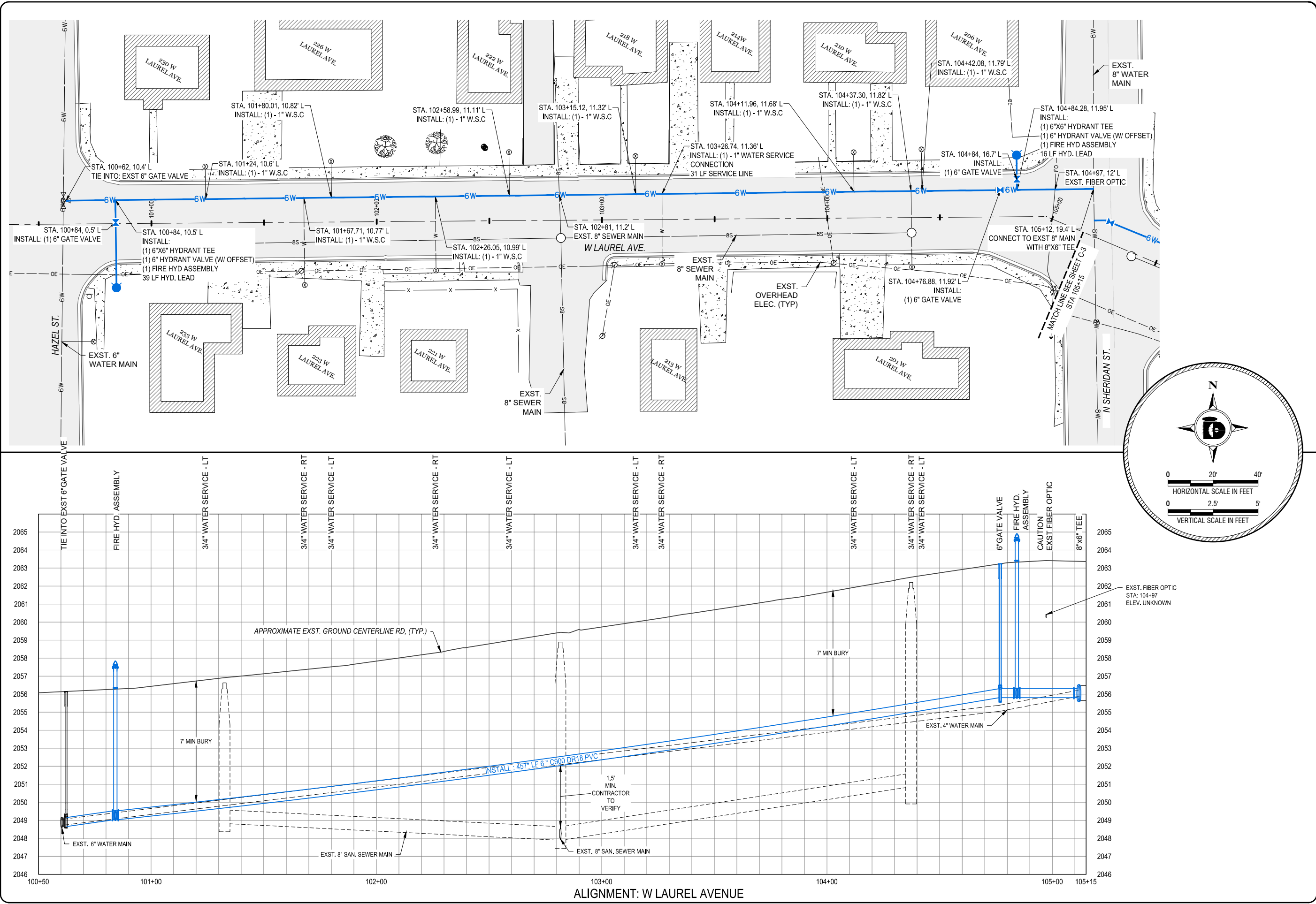
PROP. GATE VALVE

Rev No	Date	By	Description

LAUREL AVE WATER REPLACEMENT CITY OF PLENTYWOOD, MT PLENTYWOOD, MT			
PROJECT OVERVIEW MAP			
Drawn By: MDR	Surveyed By: D.J.L.	Project No: S21-00-029	Date: 04/2021
Checked By: RK	Designed By: MDR		

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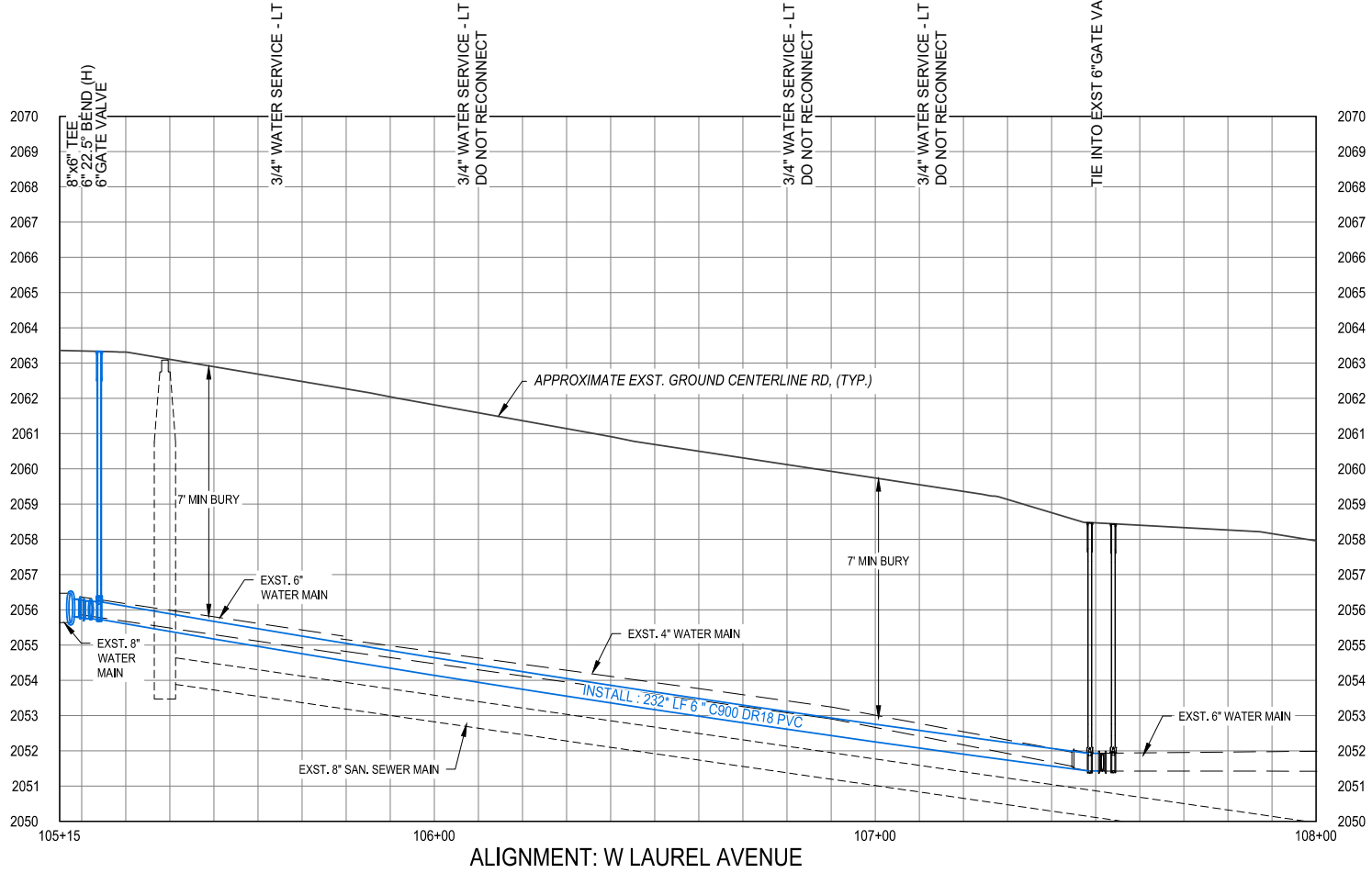
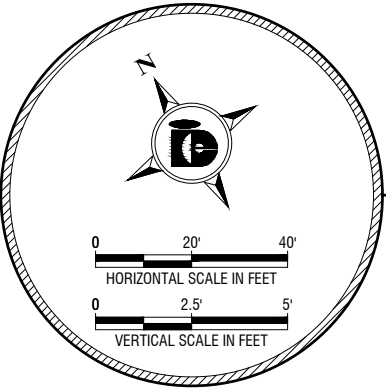
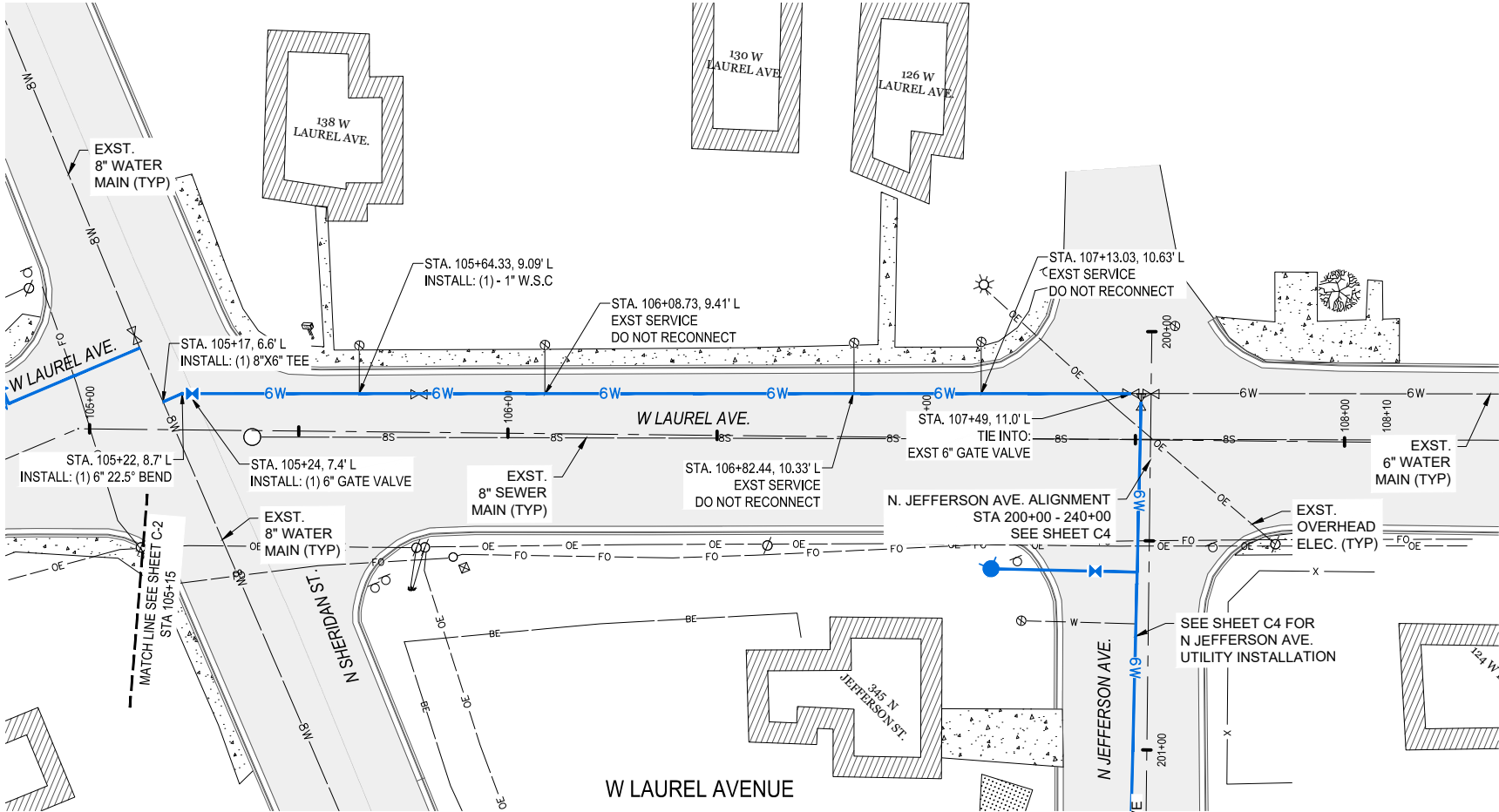


Rev	No	Date	By	Description

LAUREL AVE WATER REPLACEMENT CITY OF PLENTYWOOD, MT PLENTYWOOD, MT			
W LAUREL AVE (STA. 100+50.00 TO 105+15.00)			
Drawn By:	MDR	Surveyed By:	DJL
Checked By:	RK	Designed By:	MDR
Project No: S21-00-029		Date: 04/2021	

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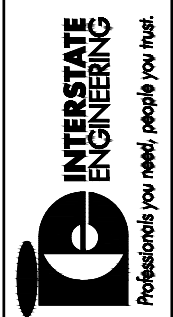


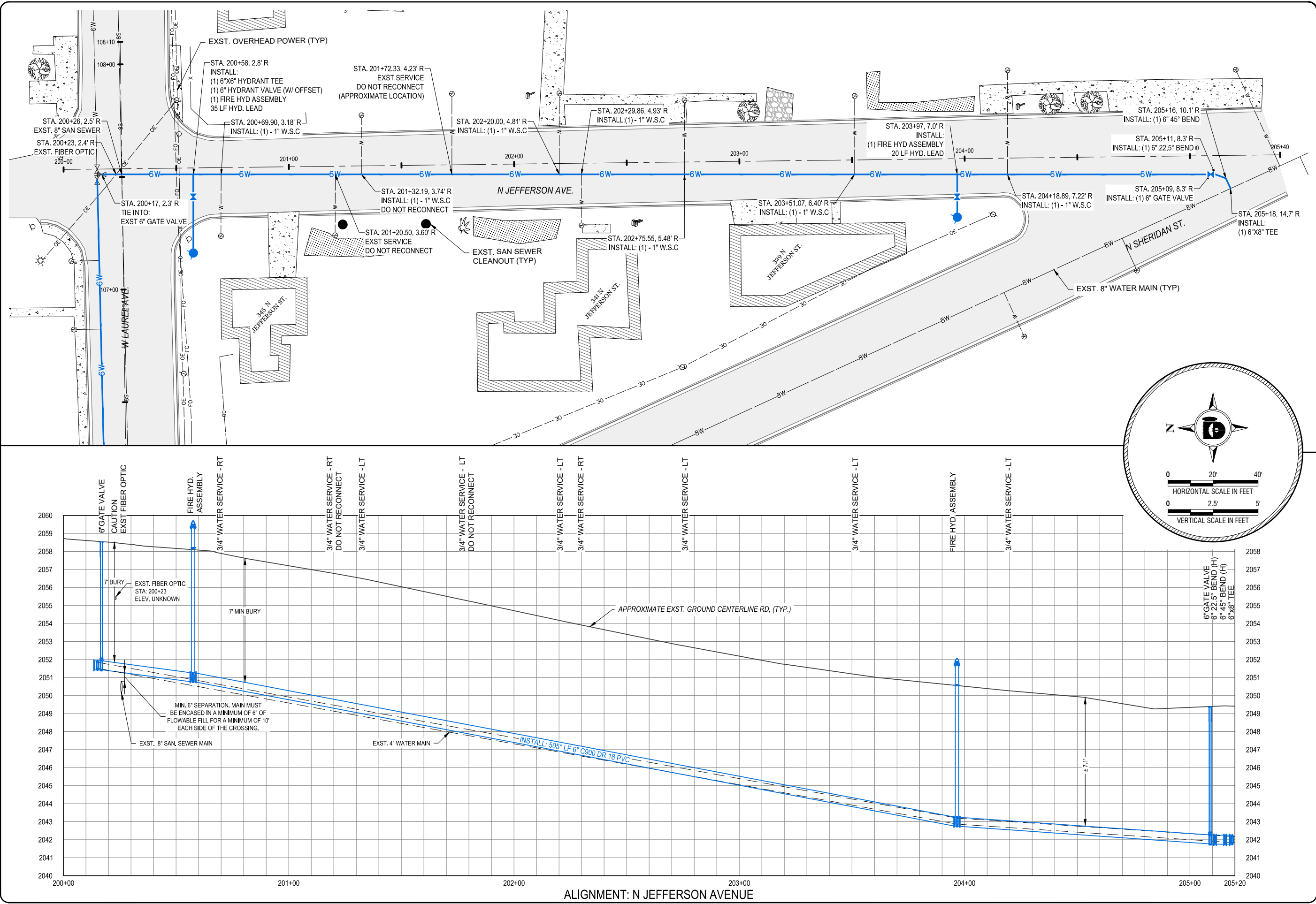


Rev	No	Date	By	Description

LAUREL AVE WATER REPLACEMENT CITY OF PLENTYWOOD, MT PLENTYWOOD, MT				Project No: S21-00-029
W LAUREL AVE (STA. 105+15.00 TO 108+00.00)				Date: 04/2021
Drawn By: MDR	Surveyed By: RK	Designed By: MDR	Checked By: MDR	

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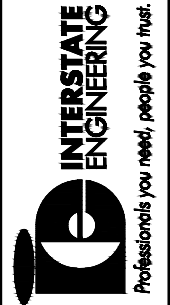




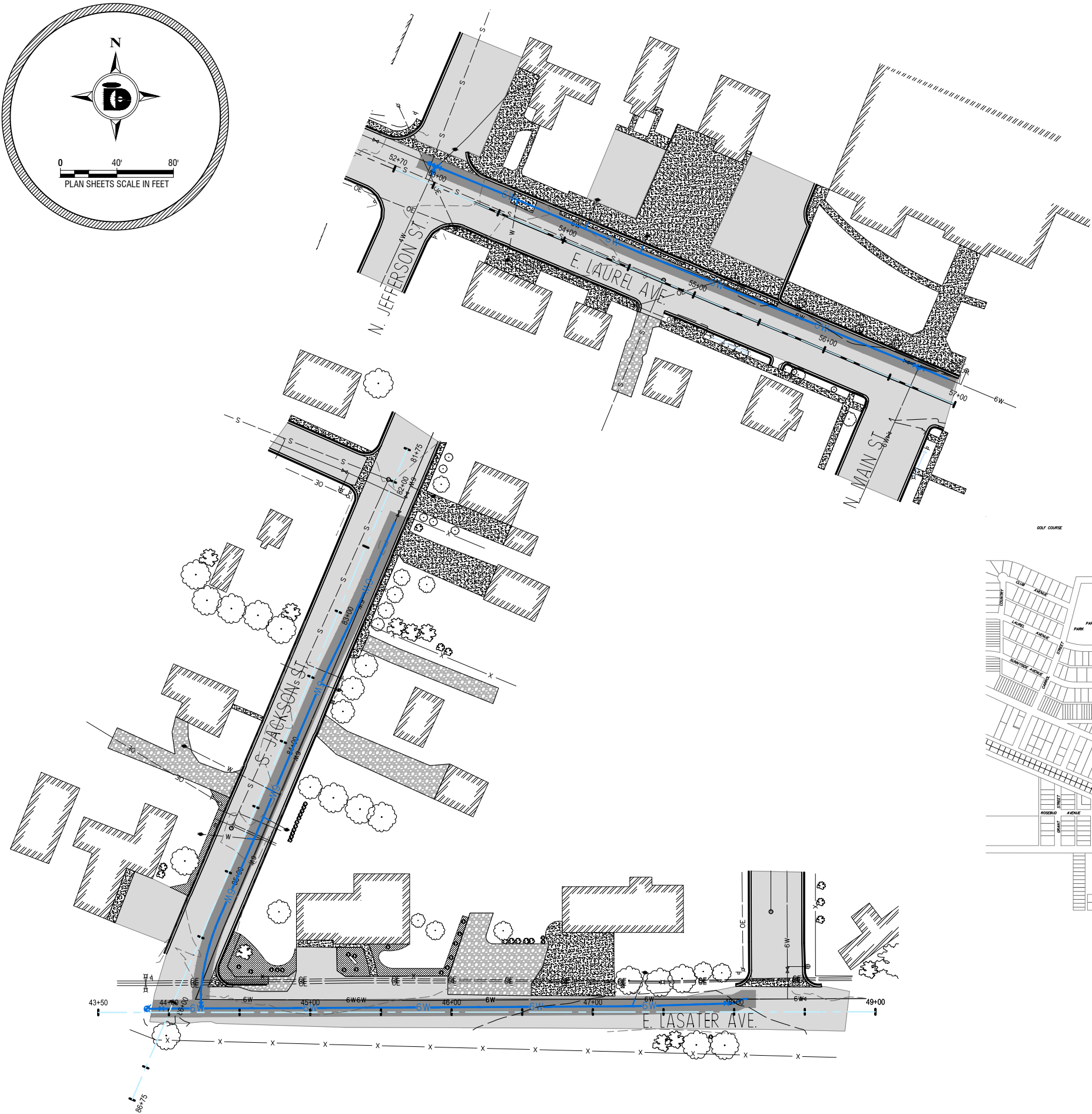
Rev	No	Date	By	Description

LAUREL AVE WATER REPLACEMENT CITY OF PLENTYWOOD, MT PLENTYWOOD, MT				
N JEFFERSON AVE (STA. 200+00.00 TO 205+20.00)				
Drawn By:	MDR	Surveyed By:	DLL	Project No: S21-00-029
Checked By:	RK	Designed By:	MDR	Date: 04/2021

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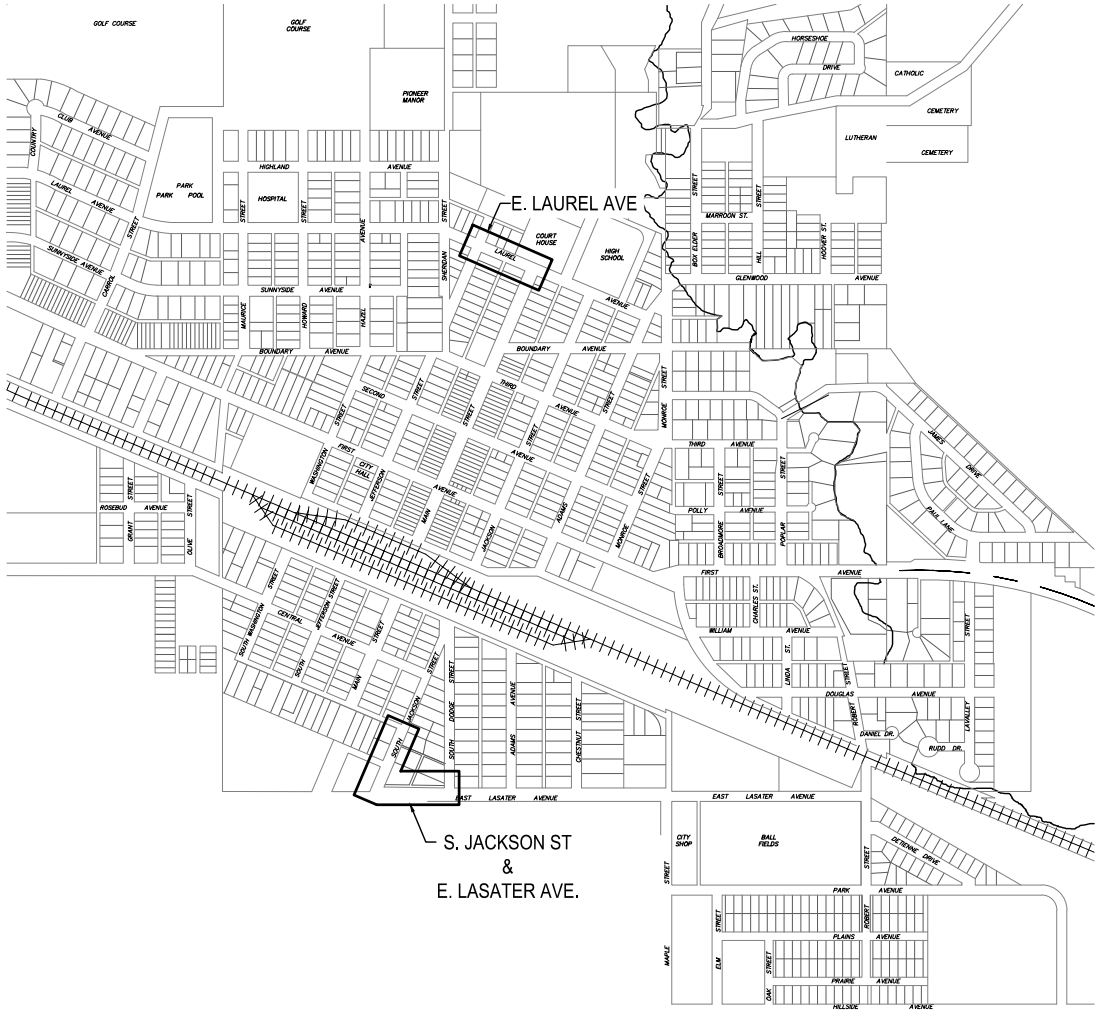


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LEGEND	
	EXISTING ASPHALT SURFACE
	PROPOSED ASPHALT SURFACE
	PROPOSED CONCRETE SURFACE

QUANTITIES	
DESCRIPTION	UNIT
PROPOSED ASPHALT RESTORATION	SQYD
E. LAURAE L AVE.	1070
S. JACKSON ST. & E LASATER AVE.	420
TOTAL	1490



LAUREL AVE WATER REPLACEMENT  
CITY OF PLENTYWOOD, MT  
EMERGENCY REPLACEMENT REPAVE

Drawn By: MDR  
Checked By: RK

Surveyed By: D.L.  
Designed By: MDR

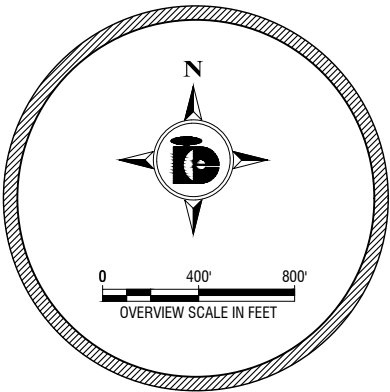
Project No: S21-00-029  
Date: 04/2021

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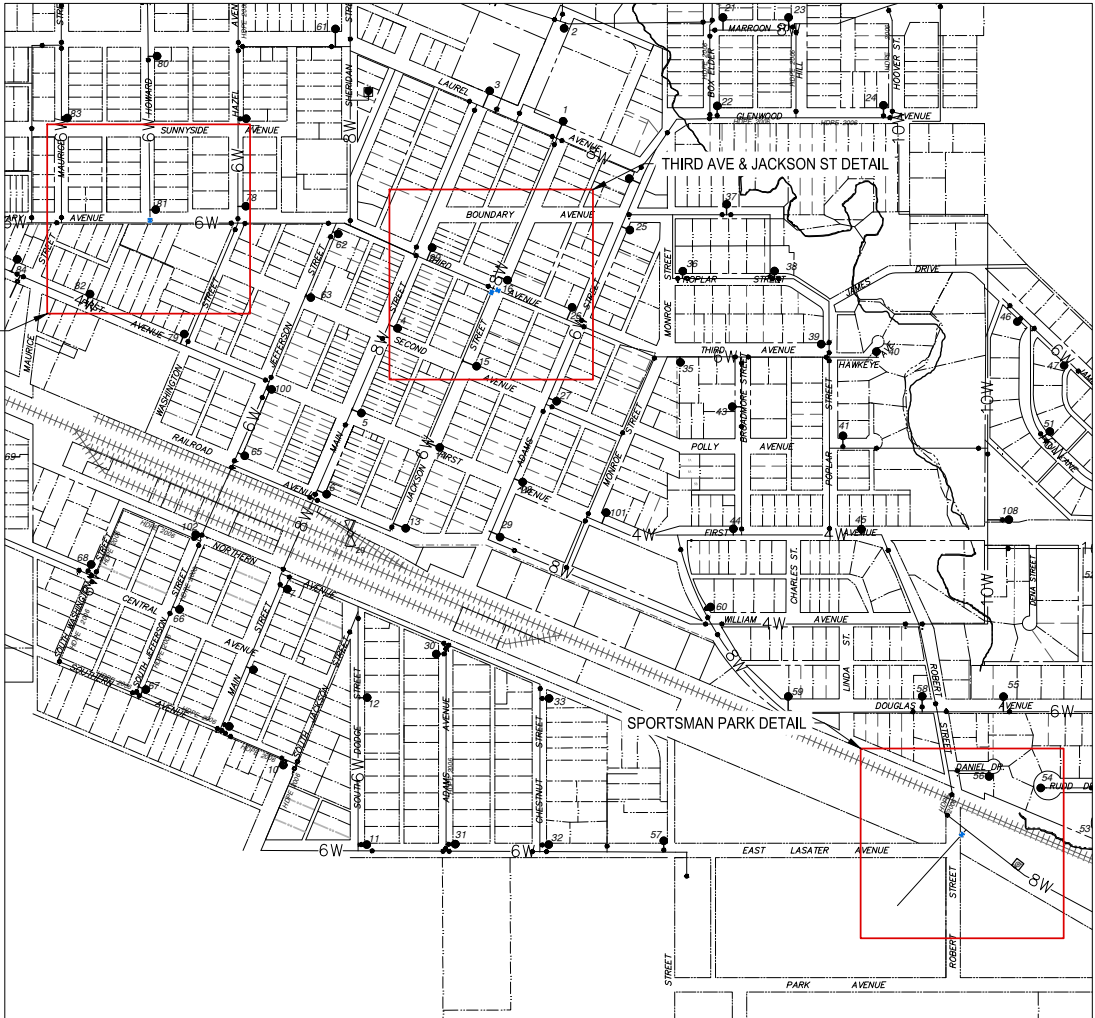
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C5

13 OF 14

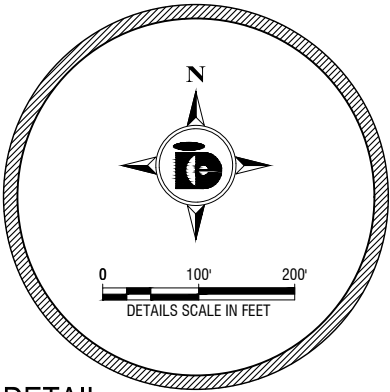


BOUNDARY AVE & HOWARD ST DETAIL

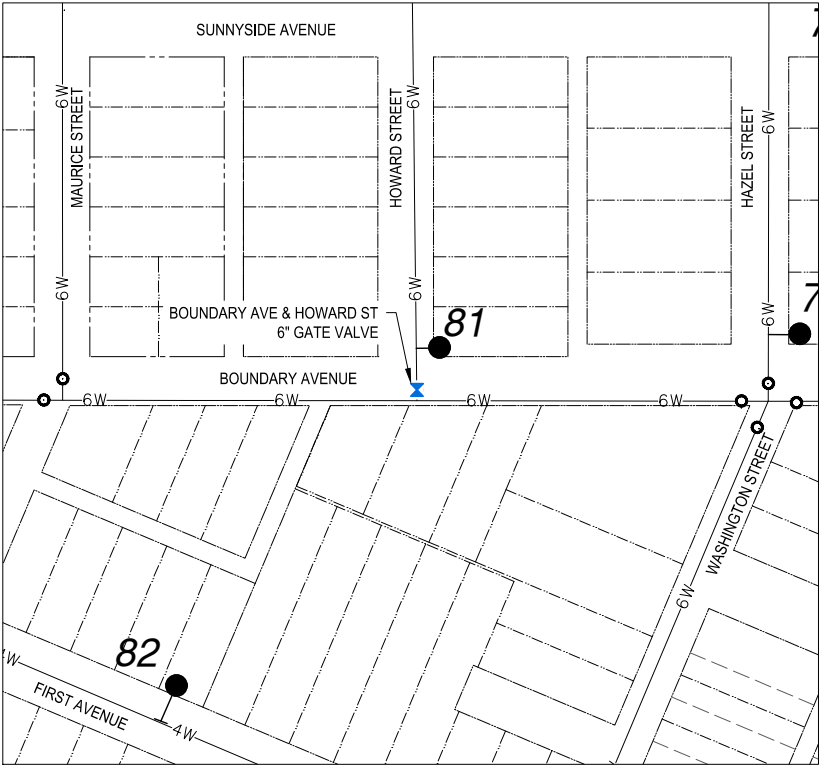


LEGEND

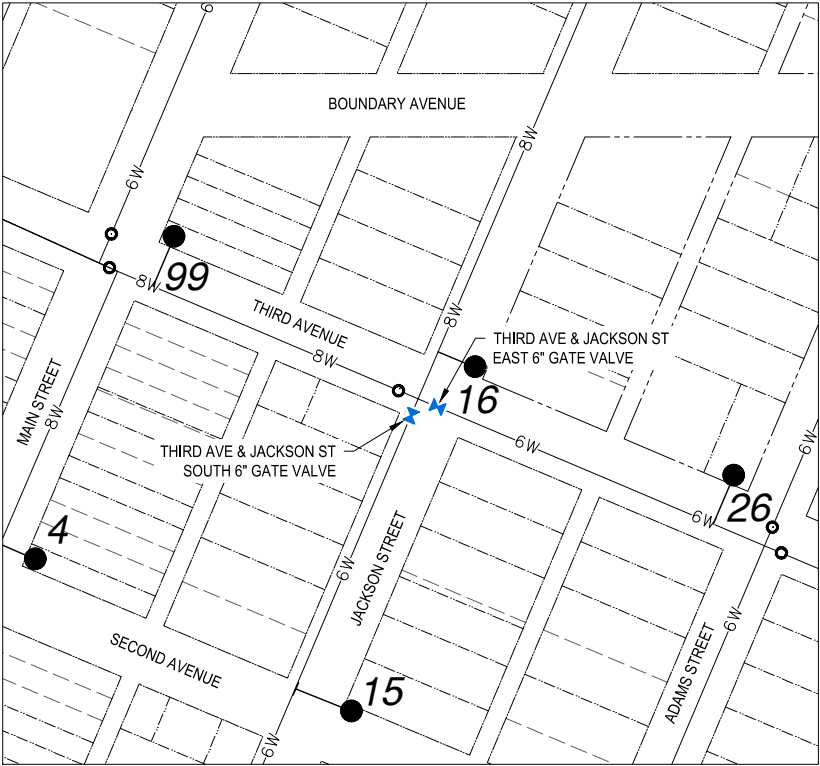
- EXST. HYDRANT
- EXST. WATER VALVE
- EXST. WATER MAIN & SIZE
- PROP. WATER VALVE



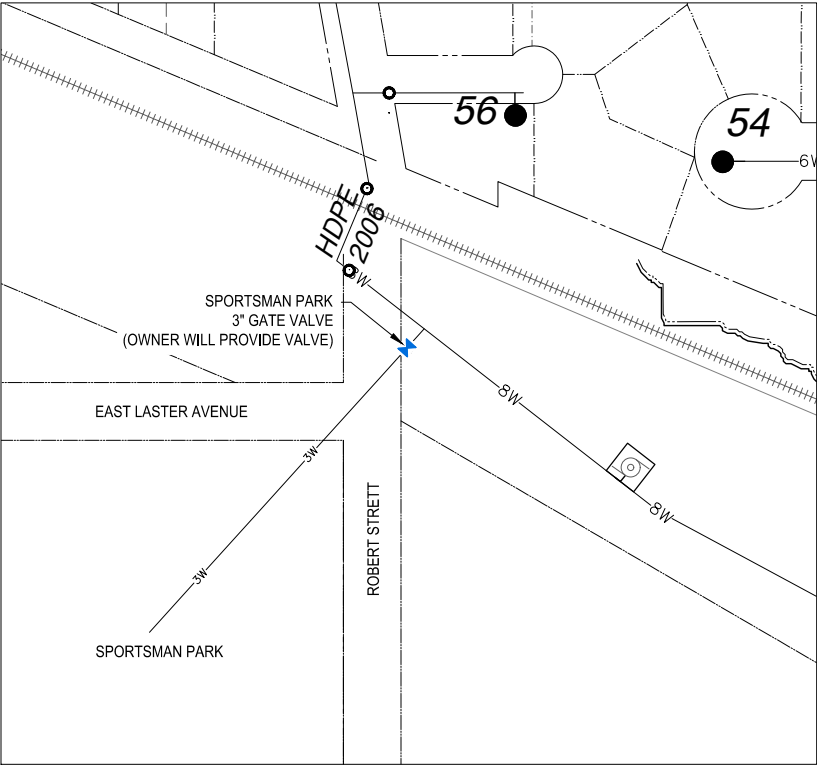
BOUNDARY AVE & HOWARD STREET DETAIL



THIRD AVENUE & JACKSON STREET DETAIL



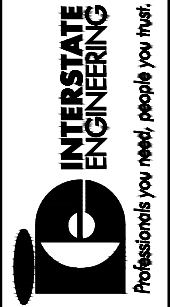
SPORTSMAN PARK DETAIL



Rev	No	Date	By	Description

LAUREL AVE WATER REPLACEMENT CITY OF PLENTYWOOD, MT				Project No: S21-00-029
WATER VALVE REPLACEMENT PLENTYWOOD, MT				Date: 04/2021
Drawn By: MDR	Surveyed By: DILL	MDR	MDR	
Checked By: RK	Designed By: RK			

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**ENGINEERING DESIGN REPORT**  
**LAUREL AVE WATER REPLACEMENT**

*City of Plentywood, Montana*  
*I.E. # S21-00-029*

**APRIL 2021**

**PREPARED FOR:**  
**City of Plentywood, MT**



**425 E. Main**  
**Sidney, Montana 59270**

I, John R. Bach, hereby certify that this Engineering Design Report was prepared by me or under my direction. I further certify that I am a Registered Professional Engineer under the Laws of the State of Montana.



Date: 4/12/21



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## **Introduction:**

This Engineering Design Report for the Laurel Ave Water Replacement Project for the City of Plentywood has been prepared in accordance with the Montana Department of Environmental Quality Circular DEQ – 1, Standards for Waterworks, 2018 Edition.

The preparation of this Design Report was necessitated due to the desire of the City of Plentywood to replace the existing four-inch Asbestos Cement and Cast Iron mains with a new six inch PVC water main, and to achieve the required fire flows in the area. This replacement will be located in W. Laurel Ave, beginning at Hazel Street, and extending southeast approximately one and a half blocks to N. Jefferson Street. A replacement will also be performed in N. Jefferson Street from W Laurel Ave to Sheridan Street.

### **1.1.1 General**

This report is intended to outline the proposed Laurel Ave Water Replacement Project for the City of Plentywood's municipal water system. This project will replace the existing four-inch Asbestos Cement (AC) and Cast Iron (CI) mains with a six-inch PVC main. The improvements will fix issues the City is having with leaks in this section of piping, and will increase the size of the main to the minimum size required through Montana DEQ Circular DEQ-1. This increase in size will also provide more adequate fire flows for the area of the City.

### **1.1.2 Extent of Water Works System**

The project's intent is to replace approximately 1200 LF of four-inch AC and CI water main with six-inch PVC pipe. The project is not intended to expand or increase service to any new customers or increase demand on the existing City of Plentywood system. The area that this water main replacement serves is currently fully developed, with no anticipated future growth or development.

### **1.1.3 Alternate Plans**

There are no alternate plans for this water main replacement that remedy the deficiencies stated above.

### **1.1.4 Site Conditions**

No geotechnical investigations were performed for this project, however prior projects in the area have performed investigations. The soils in the project area consist mainly of Loamy soils, with some intermixed poorly graded sands and silts. This soil type is conducive to pipeline installation, with proper safety measures implemented during construction. No ground water was observed during other projects in the vicinity of the

project, however ground water considerations should be considered during construction times, especially later in the year.

The NRCS Web Soil survey is available in the appendix.

### **1.1.5 Water Usage Data**

The City of Plentywood has an estimated population of 1,734 people (based on 2010 census) with approximately 966 service connections.

Following are the City's most recent water usages and average flows:

Year	Annual Usage (Gals)	Average Demand (GPM)	Average Usage (Gal/c/d)
2018	89,192,500	169.7	140.92
2019	97,255,905	185.1	153.66
2020	92,982,334	176.9	146.91

The proposed water line replacement does not anticipate any new demands or services to the existing system or existing systems water usage.

### **1.1.6 Flow Requirements**

As described previously in this report, the project is intended to replace the existing four-inch AC main with a six-inch PVC main. The project is not intended to expand or increase service to new customers or increase demand on the existing City of Plentywood system.

### **1.1.7 Sources of Water Supply**

#### **1.1.7.1 Surface Water Sources**

The City of Plentywood obtains its potable water from the Dry Prairie Rural Water (DPRW) System. All of the water throughout the Dry Prairie system is treated at the Assiniboine and Sioux Rural Water Supply System (ASRWSS) treatment plant at Wolf Point, MT. This treatment facility obtains its raw water from the Missouri River. Further discussion of surface water is not necessary, and will not be impacted as part of this project.

#### **1.1.7.2 Ground Water Sources**

Ground water sources are not applicable or present to this project.

### **1.1.8 Proposed Treatment Processes**

No treatment processes are proposed as part of this project. All of the water supplied to the City of Plentywood is treated at the ASRWSS treatment facility.

### **1.1.9 Sewage System Available**

No public or private sewage systems will be effected as part of this project.

### **1.1.10 Waste Disposal**

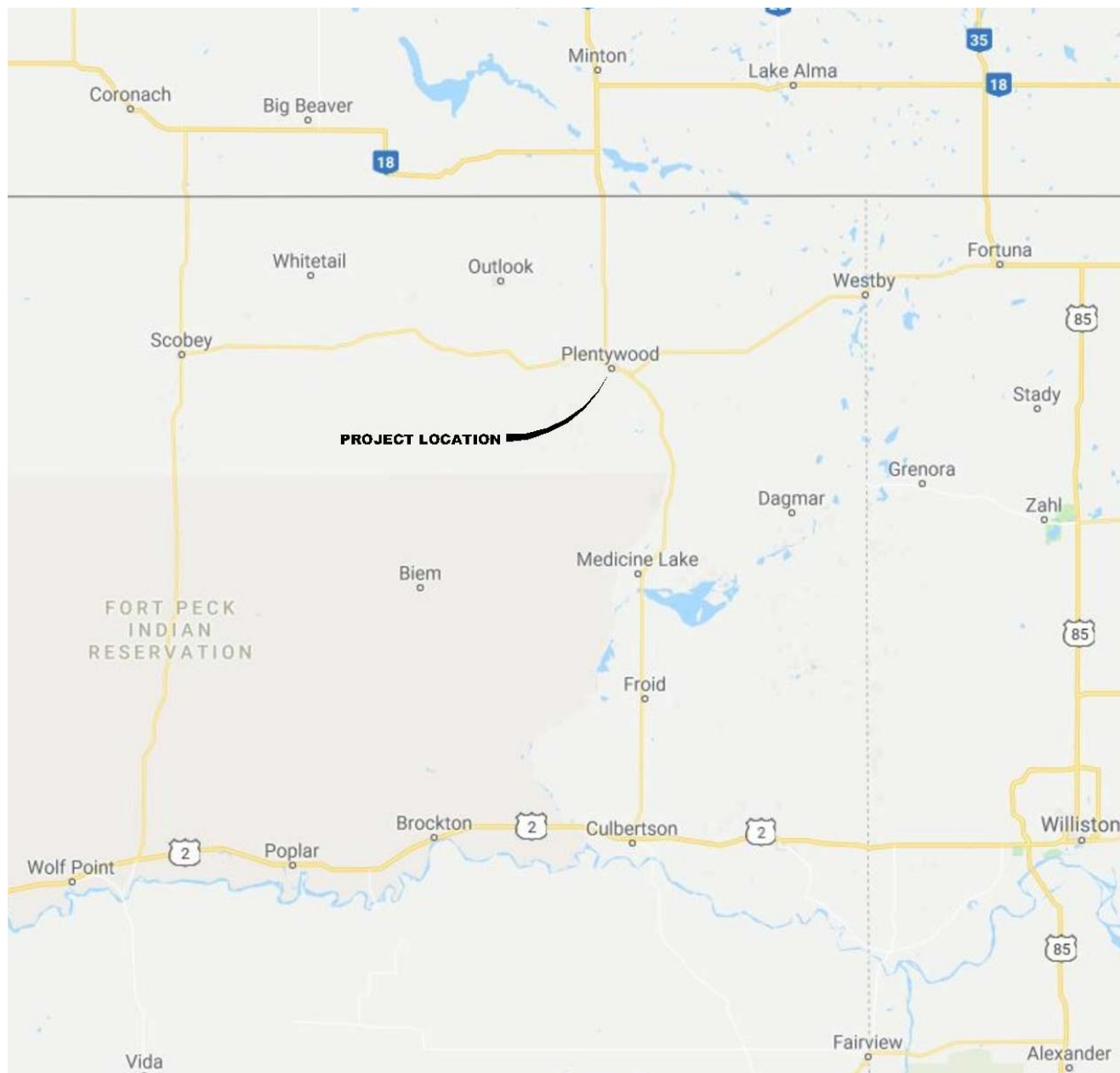
The only waste that will be generated as part of this project is the disposal of limited quantities of the existing four inch Asbestos Cement Pipe at locations that it cannot be properly abandoned in place. At these areas, the pipe will be removed from the ground, and will be disposed of in accordance with all Local, State, and Federal requirements. The AC pipe will be double bagged, and will be disposed of in an approved landfill. No adverse impacts are anticipated with this disposal.

### **1.1.11 Automation**

No automation systems will be effected or added as part of this project.

### **1.1.12 Project Sites**

The project is located within or on property owned by the City of Plentywood. The project will be performed within the confines of W Laurel Ave, between Hazel Street and N Jefferson Street, as well as within the confines of N Jefferson Street between W Laurel Ave and Sheridan Street. Figures 1 and 2 illustrate the project vicinity and the project site.



**Figure 1 – Project Vicinity Map**



**Figure 2 – Project Site Map**

### **1.1.13 Financing**

The City has the necessary funding available to successfully complete this project. No special funding sources will be utilized for the completion of this project.

### **1.1.14 Future Expansions**

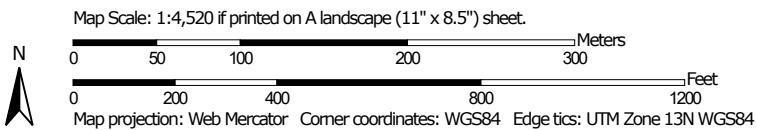
No future expansions are planned at this time.

**APPENDIX 1**  
**NRCS WEB SOIL SURVEY**

Soil Map—Sheridan County, Montana  
(Laurel Avenue Water Main Replacement)



Soil Map may not be valid at this scale.



Natural Resources  
Conservation Service


Web Soil Survey  
National Cooperative Soil Survey

4/13/2021  
Page 1 of 3

Soil Map—Sheridan County, Montana  
(Laurel Avenue Water Main Replacement)

## MAP LEGEND

### Area of Interest (AOI)

 Area of Interest (AOI)

### Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

### Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

### Water Features



Streams and Canals

### Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

### Background



Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

**Warning:** Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Sheridan County, Montana

Survey Area Data: Version 15, Jun 4, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Sep 10, 2010—Jul 17, 2016

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
FaB	Farnuf loam, 2 to 4 percent slopes	10.2	11.2%
Ha	Havrelon silt loam	18.9	20.8%
TuB	Turner loam, 0 to 4 percent slopes	55.5	61.1%
WaE	Wabek gravelly sandy loam, 0 to 35 percent slopes	3.1	3.5%
ZaE	Zahill loam, 15 to 60 percent slopes	3.1	3.4%
<b>Totals for Area of Interest</b>		<b>90.8</b>	<b>100.0%</b>



**John Bach, PE**  
**Interstate Engineering, Inc.**  
**PO Box 648**  
**Sidney, MT 59270**

**June 10, 2021**

**Re: Laurel Avenue Water Main Replacement**

**Plentywood**

**EQ# 21-2228**

Dear Consultant:

Plans and specifications for the subject project have been reviewed by personnel of the Public Water Supply Plan Review Section and were found to be satisfactory. Approval of these plans is hereby given; a copy of the plans and specifications bearing the approval stamp of the Department is enclosed. Approval is based on the design report, certified checklist, plans, and specifications received April 21, 2021 under the seal of **John R. Bach, 23770PE**. The plans were reviewed in accordance with Department design standard DEQ-1. This project approval includes the replacement of approximately 1,200 linear feet of water main with new 6-inch AWWA C900 PVC main in Laurel Avenue and Jefferson Avenue in Plentywood.

Approval is given with the understanding that any deviation from the approved plans and specifications will be submitted to the Department for review and approval. Prior to operation of the public water system, certification must be submitted to the Department that the system, or portion of the system, constructed, altered, or extended, was completed in substantial accordance with plans and specifications approved by the department and that there are no deviations from the design standards of the applicable circulars other than those previously approved by the Department. Within 90 days following completion of the project, a complete set of "as-built" record drawings must be submitted to the Department. For a system or any portion of a system designed by a professional engineer, an engineer shall sign and submit the certification letter and "as-built" drawings to the Department. Construction must be completed within three years of this date. If more than three years elapse before completing construction, plans and specifications must be resubmitted and approved before construction begins. This three-year period does not extend any compliance schedule requirements pursuant to a Department enforcement action against a public water or sewage system.

Failure to abide by the above conditions is considered a significant violation of the Montana Public Water Supply Laws, MCA Title 75, Chapter 6, and the Administrative Rules promulgated thereunder. The applicant is responsible for compliance with all other applicable federal, state, local, and tribal law, regulations, and ordinances, including but not limited to, the Montana Water Use Act, MCA Title 85, Chapter 2.

Department approval of this project covers only those portions of the plans and specifications that are subject to the Department's review authority under the Public Water Supply Laws and the Administrative Rules promulgated thereunder. This approval does not cover items found within the plans and specifications that are outside of the Department's review authority, including but not limited to, electrical work, architecture, site grading or water and sewer service connections. The approval in this document is limited solely to the matters therein specifically contained and does not constitute approval, implied or otherwise, for the purposes of any other law, regulation, or ordinance.

If I can offer any further information or assistance, please feel free to contact me at (406) 247-4455 or [mwaite@mt.gov](mailto:mwaite@mt.gov).

Sincerely,

A handwritten signature in blue ink, appearing to read "Matthew Waite", is written over a light blue horizontal line.

Matthew Waite, PE  
Water Quality Division  
Billings Regional Office

cc: Owner  
County Sanitarian  
File